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ABSTRACT

A collection of materials related to the Virginia Beach Public Schools' 5-year plan to reduce the adult-pupil class ratio in kindergarten, first, and second grade is presented. The first section briefly provides a rationale, a discussion of related research, and a description of the implementation plan for the reduction of class size. Included are tables estimating costs of implementing three options from 1990 to 1995. Subsequent materials are arranged in eight appendices. Appendix I provides a brief report on class size in Virginia Beach primary schools. Appendix II reports a study in the reduction of class size. Appendix II also contains six tables. Tables 1 through 4 provide a series of methods by which adult-pupil ratios may be reduced or altered, and the cost of the methods. Table 5 presents the number and percentage of students retained in kindergarten in 1987-1988. Table 6 presents comparative costs of the four options presented in Tables 1 through 3. Appendix III provides projections for city, educational planning center, and average enrollment through 1997. Appendix IV reports estimated salaries for teachers and teacher assistants from 1990 through 1995. Appendix V compares projected enrollment and capacity. Appendices VI, VII, and VIII present estimated costs of reducing class size in grades K through 2. (RH)

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FIVE-YEAR PLAN TO REDUCE THE ADULT-PUPIL RATIO IN KINDERGARTEN, FIRST, AND SECOND GRADE

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VIRGINIA BEACH CITY PUBLIC SCHOOLS
Educational Planning Center

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TABLE OF CONTENTS

FIVE-YEAR PLAN TO REDUCE THE ADULT-PUPIL RATIO
IN KINDERGARTEN, FIRST, AND SECOND GRADE

Rationale . . . . . .

Related Research . . . . . .

Implementation Plan for the Reduction
of Class Size . . . . . .

Summary . . . . . .

FIVE-YEAR PLAN TO REDUCE THE ADULT-PUPIL CLASS RATIO IN GRADES K THROUGH 2

RATIONALE

The five-year plan to reduce adult-pupil class ratio in grades K through 2 is based on the following position papers which have been prepared for the School Board: Class Size in Primary School, September 1988 (Appendix I), and A Study on the Reduction of Class Size, December 1988 (Appendix II). The first report documents the class enrollment for 1988-89. The second report documents the research related to the reduction of class size and its effect on student achievement. The plan to reduce adult-pupil class ratios is also based on one of five priorities established in 1988 by the Virginia Beach City School Board to "reduce the adult-pupil ratio in kindergarten, first, and second grade." The five-year plan also addresses mandates relating to class size established by the Standards of Quality for Public Schools (SOQ) in Virginia.

Related Research

Standards of Quality for Public Schools in Virginia, July 1988, mandate that

> Certified instructional personnel shall be assigned by each school in a manner that produces divisionwide ratios of students in average daily membership to full-time equivalent teaching positions, excluding special education teachers, principals, assistant principals, counselors, and librarians, that are not greater than the following ratios: (i) twenty-five to one in kindergarten with no class being larger than thirty students; if the average daily membership in any kindergarten class exceeds twenty-five pupils, a full-time teacher's aide shall be assigned to the class; (ii) twenty-four to one in grade one with no class being larger than thirty students; and twenty-five to one in grades two and three with no class being larger than thirty students; (iii) twenty-five to one in grades two and three with no class being larger than thirty students; (iv) twenty-five to one in grades four through six with no class being larger than thirty-five students; and (v) twenty-four to one in all English classes in grades six through twelve. However the twenty-four to one ratio in grade one with no class being larger than thirty students as provided in (ii) above and the twenty-four to one ratio in all English classes in grades six through twelve as provided in (v) above shall not be required prior to July 1, 1989.

Virginia Beach City Public Schools are characterized by a rapidly growing population which is becoming increasingly diverse. The changing demographics of the population call for more vigilant teacher instruction in the primary grades. Effective early childhood education is critical if children are to be successful with their initial school experience. Further, early intervention is an alternative to later repetition which is expensive. Reducing the size of classes should improve the educational experience of the children and, thus, expand the teacher's role. A setting of fewer children could permit better monitoring of students' needs, quicker intervention, more appropriate educational decisions, and facilitative interactions with parents.

Research indicates that reducing class size by itself does not increase the academic achievement of students. Reduction of class size is a facilitative factor in boosting student achievement. However, as class size decreases, teachers should receive training in instructional programming and classroom management techniques which could capitalize on reduced numbers of students. Qualitative increases must accompany quantitative changes.

Constant teacher-pupil interaction is a major part of teaching the children the rudiments of reading. When class size is coupled with competent teachers who employ appropriate instructional methodology, research supports a positive relationship between class size and student achievement in reading and mathematics for students, particularly in the primary grades. Positive gains have also occurred in pupil self-concept and behavior as well as in benefits for the teachers. Achievement results are especially significant if the students are in small classes for two or more consecutive years.

Moreover, while early intervention through reduced class size may be an alternative to later remediation, a lower teacher-pupil ratio is important to introduce minority children to school. Evidence supports a positive relationship between class size and student achievement on cognitive and affective tests for children from lower socioeconomic status, particularly among minority children.

In the fiscal operating plan for 1989-90, the School Board approved $2,031,150 to lower the adult-pupil ratio in grades K through 2. In addition, two programs are being expanded, although such expansions will only indirectly affect the reduction of class size. The two programs which are being expanded include the full-day kindergarten program in Chapter 1 schools where space is available and the transitional first-grade program which will increase from six to twelve schools.

Implementation Plan for the Reduction of Class Size

Several options are presented in the Implementation Plan for the reduction of class size. Option 1 presents the costs over a five-year period (1990-1995) to maintain the teacher/student ratio which has been approved by the School Board for 1989-90. The costs are calculated to reflect the additional costs created by the increasing student population in grades K through 2, the increasing number of teachers and teaching assistants to teach the students, and the increasing need to house the students. All salaries teachers and teacher assistants are adjusted to reflect the anticipated annual increase in the cost of living. For purposes of comparison, Option 1 represents the "status quo option" for the school division for 1990-95 should the School Board choose not to reduce class size from the current teacher/student ratio funded for 1989-90.

Option 2 presents the costs to the school division to incrementally reduce class size by 2.5 percent in kindergarten through grade 2 each year for five years (1990-1995). Reducing class size by 2.5 percent per year represents an approximate average reduction of .5 students per classroom per year for grades K through 2. Thus, if this option is selected, an average reduction of 2.5 students per classroom would have occurred at the end of five years in grades K-2.

Option 3 presents the costs over a five-year period (1990-95) to the school division to reduce class size in kindergarten by a maximum of 5 percent (or approximately one student per class), in grade 1 by a maximum of 10 percent (or approximately 2 students per classroom), and in grade 2 by a maximum of 10 percent (or approximately 2 students per class).

Appendix VI, Appendix VII, Appendix VIII present the estimated costs to reduce class size in grades K through 2. The tables were prepared using the average of the enrollment projections for grades K through 2 for 1990 to 1995 made by both the Planning Department for the City of Virginia Beach and the Educational Planning Center (Appendix III). The tables were also prepared using the estimated salaries and benefits for teachers and teaching assistants, 1990-1995 (Appendix IV), and the estimated total cost of $25,000 associated with the purchase, set up, and furnishing of a portable classroom.

Classroom projections do not take into consideration the scheduled opening in 1989 of three new elementary schools (Appendix V). The classroom projections also do not take into consideration the anticipated construction of three additional elementary schools and building additions to six current elementary schools prior to 1995. The classrooms

which might be made available from the oening of new elementary schools and the building expansions on existing elementary schools would probably reduce the number of portable classrooms needed to house the additional classes created by a reduction in class size.

Summary

The three options presented in the implementation represent only a few of a series of combinations which might be considered to effectively reduce class size. The options do not include the concepts of expanding the transitional first-grade programs to additional schools which is discussed in Appendix II. The report also does not discuss the expansion of Chapter 1 programs for Kindergarten. These two programs appear to have only an indirect effect on the over-all reduction of class size in grades K through 1.

EDUCATIONAL PLANNING CENTER

Project: Reduction in Class Size in Grades K-2

Date: April 12, 1989

Implementation Plan

Recommendation/Strategy	Priority	Implementation Date	Budget Items Cost	Comments
First Year: 1990-1991				
Option 1				
1. Maintain the 1989-90 teacher/pupil ratio of 1:22 for grade K		9/90	$ 472,518	
2. Maintain the 1989-90 teacher/pupil ratio of 1:24 for grade 1		9/90	$ 1,181,295	
3. Maintain the 1989-90 teacher/pupil ratio of 1:24 for grade 2		9/90	$ 928,172	
TOTAL COST			$ 2,581,985	
Option 2				
1. Reduce the teacher/pupil ratio to 1:21.5 for grade K (a 2.5% reduction equals a .5 student reduction per class)		9/90	$ 787,530	
(This represents an additional cost to the school division of $315,012 beyond the cost of grade K in Option 1.)				

EDUCATIONAL PLANNING CENTER

Project: Reduction of Class Size in Grades K-2

Date: April 12, 1989

Implementation Plan

Recommendation/Strategy	Priority	Implementation Date	Budget Items Cost	Comment
2. Reduce the teacher/pupil ratio to 1:23.5 for grade 1 (a 2.5% reduction equals a .5 student reduction per class)		9/90	$ 1,653,813	
(This represents an additional cost to the school division of $472,518 beyond the cost of grade 1 in Option 1.)				
3. Reduce the teacher/pupil ratio to 1:23.5 for grade 2 (2.5% reduction equals a .5 student reduction per class)		9/90	$ 1,193,364	
(This represents an additional cost to the school division of $265,192 beyond the cost of grade 2 in Option 1.)				
TOTAL COST		9/90	$ 3,634,707	
(THIS REPRESENTS AN ADDITIONAL COST TO THE SCHOOL DIVISION OF $ 1,049,722 BEYOND THE TOTAL COST OF OPTION 1.)				
Option 3				
- Reduce the teacher/pupil ratio to 1:21 for grade K (a 5% reduction equals a 1 student reduction per class)		9/90	$ 1,102,542	
(This represents an additional cost to the school division of $630,024 beyond the cost of grade K in Option 1.)				

EDUCATIONAL PLANNING CENTER

Project: Reduction of Class Size in Grades K-2

Date: April 12, 1989

Implementation Plan

Recommendation/Strategy	Priority	Implementation Date	Budget Items Cost	Comment
SECOND YEAR: 1991-1992				
Option 1				
1. Maintain the 1990-91 teacher/pupil ratio of 1:22 for grade K		9/91	$ 576,261	
2. Maintain the 1990-91 teacher/pupil ratio of 1:24 for grade 1		9/91	$ 1,152,522	
3. Maintain the 1990-91 teacher/pupil ratio of 1:24 for grade 2		9/91	$ 967,358	
TOTAL COST			$ 2,696,141	
Option 2				
1. Reduce the teacher/pupil ratio to 1:21 for grade K (a 5% reduction equals a 1 student reduction per class)		9/91	$ 1,152,522	
(This represents an additional cost to the school division of $576,261 beyond the cost of grade K in Option 1.)				
2. Reduce the teacher/pupil ratio to 1:23 for grade 1 (a 5% reduction equals a 1 student reduction per class)		9/91	$ 2,140,398	

EDUCATIONAL PLANNING CENTER

Project: Reduction of Class Size in Grades K-2

Date: April 12, 1989

Implementation Plan

Recommendation/Strategy	Priority	Implementation Date	Budget Items Cost	Comment
(This represents an additional cost to the school division of $987,876 beyond the cost of grade 1 in Option 1)				
3. Reduce the teacher/pupil ratio to 1:23 for grade 2 (a 5% reduction equals a 1 student reduction per class)		9/91	$ 1,589,231	
(This represents an additional cost to the school division $621,873 beyond the cost of grade 2 in Option 1.)				
TOTAL COST		9/91	$ 4,882,151	
(THIS REPRESENTS AN ADDITIONAL COST TO THE SCHOOL DIVISION OF $2,186,010 BEYOND THE TOTAL COST OF OPTION 1.)				
Option 3				
- Reduce the teacher/pupil ratio to 1:23 for grade 1 (a 5% reduction equals a 1 student reduction per class)		9/91	$ 2,140,398	
(This represents an additional cost to the school division of $987,876 beyond the cost of grade 1 in Option 1.)				

EDUCATIONAL PLANNING CENTER

Project: Reduction of Class Size in Grades K-2

Date: April 12, 1989

Implementation Plan

Recommendation/Strategy	Priority	Implementation Date	Budget Items Cost	Comment
THIRD YEAR: 1992-1993				
Option 1				
1. Maintain the 1991-92 teacher/pupil ratio of 1:22 for grade K		9/92	$ 1,382,544	
2. Maintain the 1991-92 teacher/pupil ratio of 1:24 for grade 1		9/92	$ 1,468,953	
3. Maintain the 1991-92 teacher/pupil ratio of 1:24 for grade 2		9/92	$ 1,444,420	
TOTAL COST			$ 4,295,917	
Option 2				
1. Reduce the teacher/pupil ratio to 1:20.5 for grade K (a 7.5% reduction equals a reduction of 1.5 students per class)		9/92	$ 2,333,043	
(This represents an additional cost to the school division of $950,499 beyond the cost of grade K in Option 1.)				
2. Reduce the teacher/pupil ratio to 1:22.5 for grade 1 (a 7.5% reduction equals a reduction of 1.5 students per class)		9/92	$ 3,283,542	

Recommendation/Strategy	Priority	Implementation Date	Budget Items Cost	Comment
(This represents an additional cost to the school division of $1,814,589 beyond the cost of grade 1 in Option 1.)				
3. Reduce the teacher/pupil ratio to 1:22.5 for grade 2 (a 7.5% reduction equals a reduction of 1.5 students per class)		9/92	$ 2,744,398	
(This represents an additional cost to the school division of $1,299,978 beyond the cost of grade 2 in Option 2.)				
TOTAL COST		9/92	$ 8,360,983	
(THIS REPRESENTS AN ADDITIONAL COST TO THE SCHOOL DIVISION OF $ 4,065,066 BEYOND THE TOTAL COST OF OPTION 1.)				
Option 3				
- Reduce the teacher/pupil ratio to 1:23 for grade 2 (a 5% reduction equals a reduction of 1 student per class)		9/92	$ 2,238,851	
(This represents an additional cost to the school division of $794,431 beyond the cost for grade 2 in Option 1.)				

EDUCATIONAL PLANNING CENTER

Project: Reduction of Class Size in Grades K-2

Date: April 12, 1989

Implementation Plan

Recommendation/Strategy	Priority	Implementation Date	Budget Items Cost	Comment
FOURTH YEAR: 1993-1994				
Option 1				
1. Maintain the 1992-93 teacher/pupil ratio of 1:22 for grade K		9/93	$ 180,642	
2. Maintain the 1992-93 teacher/pupil ratio of 1:24 for grade 1		9/93	$ 1,806,420	
3. Maintain the 1992-93 teacher/pupil ratio of 1:24 for grade 2		9/93	$ 828,971	
TOTAL COST		9/93	$ 2,816,033	
Option 2				
1. Reduce the teacher/pupil ratio to 1:20 for grade K (a 10% reduction equals a reduction of 2 students per class)		9/93	$ 1,174,173	
(This represents an additional cost to the school division of $993,531 beyond the cost of grade K in Option 1.)				

EDUCATIONAL PLANNING CENTER

Project: Reduction of Class Size in Grades K-2

Date: April 12, 1989

Implementation Plan

Recommendation/Strategy	Priority	Implementation Date	Budget Items Cost	Comment
2. Reduce the teacher/pupil ratio to 1:22 for grade 1 (a 10% reduction equals a reduction of 2 students per class)		9/93	$ 4,516,050	
(This represents an additional cost to the school division of $2,709,630 beyond the cost of grade 1 in Option 1.)				
3. Reduce the teacher/pupil ratio to 1:22 for grade 2 (a 10% reduction equals a reduction of 2 students per class)		9/93	$ 2,712,996	
(This represents an additional cost to the school division of $1,884,025 beyond the cost in grade 2 in Option 1.)				
TOTAL COST		9/93	$ 8,403,219	
(THIS REPRESENTS AN ADDITIONAL COST TO THE SCHOOL DIVISION OF $5,587,186 BEYOND THE TOTAL COST IN OPTION 1.)				

EDUCATIONAL PLANNING CENTER

Project: Reduction of Class Size in Grades K-2

Date: April 12, 1989

Implementation Plan

Recommendation/Strategy	Priority	Implementation Date	Budget Items Cost	Comment
Option 3				
- Reduce the teacher/pupil ratio to 1:22 for grade 1 (a 10% reduction equals a reduction of 2 students per class)		9/93	$ 4,516,050	
(This represents an additional cost to the school division of $2,709,630 beyond the cost of grade 1 in Option 1.)				

EDUCATIONAL PLANNING CENTER

Project: Reduction of Class Size in Grades K-2

Date: April 12, 1989

Implementation Plan

Recommendation/Strategy	Priority	Implementation Date	Budget Items Cost	Comment
FIFTH YEAR: 1994-1995				
Option 1				
1. Maintain the 1993-94 teacher/pupil ratio of 1:22 for grade K		9/94	$ 665,336	
2. Maintain the 1993-94 teacher/pupil ratio of 1:24 for grade 1		9/94	$ 665,336	
3. Maintain the 1993-94 teacher/pupil ratio of 1:24 for grade 2		9/94	$ 1,500,506	
TOTAL COST		9/94	$ 2,831,178	
Option 2				
1. Reduce the teacher/pupil ratio to 1:19.5 for grade K (a 12.5% reduction equals a reduction of 2.5 students per class)		9/94	$ 2,471,248	
(This represents an additional cost to the school division of $1,805,912 beyond the cost of grade K in Option 1.)				
2. Reduce the teacher/pupil ratio to 1:21.5 for grade 1 (a 12.5% reduction equals a reduction of 2.5 students per class)		9/94	$ 4,467,256	

EDUCATIONAL PLANNING CENTER

Project: Reduction of Class Size in Grades K-2

Date: April 12, 1989

Implementation Plan

Recommendation/Strategy	Priority	Implementation Date	Budget Items Cost	Comment
(This represents an additional cost to the school division of $3,801,920 beyond the cost of grade 1 in Option 1.)				
3. Reduce the teacher/pupil ratio to 1:21.5 for grade 2 (a 12.5% reduction equals a reduction of 2.5 students per class)		9/94	$ 4,264,596	
(This represents an additional cost to the school division of $2,764,090 beyond the cost of grade 2 in Option 1.)				
TOTAL COST		9/94	$11,203,100	
(THIS REPRESENTS AN ADDITIONAL COST TO THE SCHOOL DIVISION OF $8,371,922 BEYOND THE TOTAL COST IN OPTION 1.)				
Option 3				
- Reduce the teacher/pupil ratio to 1:22 for grade 2 (a 10% reduction equals a reduction of 2 students per class)		9/94	$ 3,611,824	
(This represents an additional cost to the school division of $2,111,318 beyond the cost of grade 2 in Option 1.)				

APPENDIX I

Report: Class Size in Primary School

VIRGINIA BEACH CITY PUBLIC SCHOOLS
Educational Planning Center

CLASS SIZE IN PRIMARY SCHOOL

The class enrollments in this report were reported on the Supplement to the State Monthly Report to the Superintendent for the months of September, 1987 and September, 1988. Virginia standards for kindergarten allow a maximum class size of 30 with an aide. All kindergarten classes in the school division have an aide. Virginia standards for first, second, and third grade allow a maximum of 30 students. This differs from the Southern Association of Colleges and Schools which requires an aide for any first-, second-, and third-grade class with 29 to 33 students.

The school division's September 30, 1988, enrollment in grades K-3 increased by 1,252 students over 1987. Sixty-four additional K-3 classes were created for the 1988-89 school year. The percentage of classes with 15 to 24 students increased in first, second, and third grade while it decreased for kindergarten. The percentage of classes with 30 or more students increased slightly for kindergarten and decreased for first, second, and third grades.

Percentage of Primary Classes by Class Size

Kindergarten

	Sept., 88	Sept., 87
Total Number of Classes	**248**	**244**
Percentage of classes with		
15 to 24 students	63%	78%
25 to 29 students	32%	20%
30+ students	5%	2%

First Grade

	Sept., 88	Sept., 87
Total Number of Classes	**243**	**222**
Percentage of classes with		
15 to 24 students	43%	32%
25 to 28 students	53%	57%
29 to 33+ students	4%	10%

Second Grade

	Sept., 88	Sept., 87
Total Number of Classes	**228**	**217**
Percentage of classes with		
15 to 24 students	40%	32%
25 to 28 students	55%	58%
29 to 33+ students.....	5%	10%

Third Grade

	Sept., 88	Sept., 87
Total Number of Classes	225	197
Percentage of classes with		
15 to 24 students	38%	25%
25 to 28 students	60%	60%
29 to 33+ students.....	2%	15%

Enrollment in Primary Classes by School

September, 1988

Grade	K			1st			2nd			3rd		
Class Size	15 to 24	25 to 29	30+	15 to 24	25 to 28	29+	15 to 24	25 to 28	29+	15 to 24	25 to 28	29+
Alanton	3	2	1	1	2	2	0	5	0	0	5	0
Arrowhead	4	0	0	4	0	0	3	1	0	5	0	0
Bayside	2	3	0	1	4	0	0	4	0	0	4	0
Birdneck	0	7	7	0	13	0	0	8	4	0	12	0
Brookwood	3	2	0	5	0	0	5	0	0	3	1	0
Centerville	3	4	0	0	6	0	1	6	0	0	7	0
College Park	6	0	0	6	0	0	3	2	0	3	3	0
Cooke	4	0	0	5	0	0	4	0	0	4	0	0
Creeds	2	0	0	1	2	0	1	2	0	3	0	0
Dey	3	1	0	4	0	0	0	4	0	3	1	0
Fairfield	3	3	0	6	0	0	6	0	0	0	6	0
Green Run	0	2	2	1	2	3	2	3	0	2	2	0
Hermitage	6	0	0	0	5	0	0	3	1	5	0	0

Enrollment in Primary Classes by School

September, 1988

Grade	K			1st			2nd			3rd		
Class Size	15 to 24	25 to 29	30+	15 to 24	25 to 28	29+	15 to 24	25 to 28	29+	15 to 24	25 to 28	29+
Holland	3	3	0	5	2	0	3	3	0	2	3	0
Indian Lakes	0	6	0	3	2	0	2	4	0	0	6	1
Kempsville	2	1	0	4	0	0	0	1	2	4	0	0
Kemps. Meadows	6	0	0	0	5	0	1	5	0	2	4	0
King's Grant	1	4	0	1	4	0	1	4	0	4	1	0
Kingston	3	1	0	0	4	0	0	4	0	0	4	0
Linkhorn	6	0	0	0	4	0	2	3	0	2	3	0
Luxford	4	0	0	4	0	0	0	3	1	4	0	0
Lynnhaven	4	0	0	2	3	0	4	0	0	3	1	0
Malibu	3	0	0	0	3	0	3	0	0	3	0	0
Newtown	6	0	0	5	1	0	3	2	0	3	1	0
North Landing	3	2	0	6	0	0	6	0	0	5	0	0
Parkway	7	1	0	0	6	0	4	2	0	3	3	0
Pembroke	5	0	0	4	1	0	0	3	1	0	4	0
Pem. Meadows	1	3	0	1	3	0	0	4	0	2	2	0
Plaza	1	3	0	0	3	1	0	4	0	0	4	0
Point O'View	0	6	0	1	4	0	1	4	0	0	2	3
Princess Anne	0	3	3	0	4	2	0	4	2	0	6	0
Providence	6	0	0	0	6	0	0	5	0	0	5	0
Rosemont	2	6	0	7	0	0	3	3	0	1	6	0
Rose. Forest	5	5	0	0	9	0	0	9	0	1	7	0
Salem	8	0	0	0	7	0	5	2	0	0	5	1
Seatack	3	3	0	0	3	2	1	3	0	3	1	0
Shelton Park	3	1	0	2	2	0	2	1	0	4	0	0
Thalia	3	2	0	5	0	0	5	0	0	2	2	0
Thoroughgood	0	4	0	3	1	0	1	3	0	0	3	0
Trantwood	6	0	0	0	5	0	3	2	0	0	6	0
White Oaks	5	1	0	0	6	0	0	6	0	0	6	0
Williams	6	0	0	7	0	0	4	2	0	3	3	0
Windsor Oaks	5	0	0	2	3	0	5	0	0	5	0	0
Windsor Woods	3	1	0	4	0	0	4	0	0	2	1	0
Woodstock	6	0	0	3	2	0	3	2	0	0	4	0
Total	155	80	13	103	127	10	91	126	11	86	134	5

APPENDIX II

Report: A Study in the Reduction of Class Size

A STUDY ON THE REDUCTION OF CLASS SIZE

Educational Planning Center

Virginia Beach City Public Schools

December, 1988

TABLE OF CONTENTS

REPORT ON THE REDUCTION OF CLASS SIZE — Page

Rationale 1

Related Research 1

Conclusions from the 1978 Educational Research Service Brief on Class Size 2
Critique of the Technical Report on Year One (1985-86) of Project Star: The Student/Teacher Ratio 4
Nationally Cited Research Studies 6

Conclusion 9

Tables

1 - Summary of Projected Teacher/Classroom Needs and Costs to Maintain a School Average Teacher/Student Ratio of 1:24 13

2 - Summary of Projected Teacher/Classroom Needs and Costs (for Maximum Teacher/Student Ratios of 1:24 to 1:15) 22

3 - Summary of Projected Costs for Teacher Assistants in Grades 1 Through 2 for Classes Which Exceed 1:24 71

4 - Summary of Costs to Extend Transitional First-Grade Program into Additional Elementary Schools 74

5 - Number of Students Retained in Kindergarten in 1987-88 76

6 - Comparative Costs of Alternative Methods to Reduce Class Size in Grades K - 2 78

A STUDY ON THE REDUCTION OF CLASS SIZE

Rationale

Education is a multitude of processes (i.e., instructional programming, classroom management, teacher training, community expectations . . .). It is difficult, if not impossible, to change education dramatically by altering a single aspect of a complex system of variables. While it is doubtful that the number of students in a classroom independently determines academic progress, it can be argued that smaller class size may be a facilitative factor in boosting classroom achievement. However, as class size decreases, teachers should receive training in instructional programming and classroom management techniques which could capitalize on reduced numbers of students. Qualitative increases must accompany quantitative changes.

Class size reduction should improve the educational experience of the children and, thus, expand the teacher's role. A setting of fewer children could permit better monitoring of students' needs, quicker intervention, more appropriate educational decisions, and facilitative interactions with parents.

When class size is coupled with competent teachers who employ appropriate instructional methodology, the research supports a positive relationship between class size and student achievement in reading and mathematics for students, particularly in the primary grades. Positive gains have also occurred in pupil self-concept and behavior as well as in benefits for the teachers. Achievement results are significant especially if the students are in small classes for two or more consecutive years. Further evidence supports a positive relationship between class size and student achievement on cognitive and affective tests for children from lower socioeconomic status.

With reference to the research which indicates a positive academic impact of reduced class size on primary students, particularly those from lower socioeconomic status background, serious consideration should be given to implementing a pilot program to reduce class size in primary grades in identified schools which exhibit low standardized test scores and large numbers of children from low income families.

Related Research

The research on class size is immense. It covers the effect of class size on pupil achievement, pupil attitudes, teacher moral and attitudes, classroom methods, policy decisions, and school district finances. Reviewers of research on class size generally have concluded that the

relationship between class size and pupil achievement is inconclusive. An analysis of original research studies and reviews of research on class size and pupil-teacher ratio indicates clearly that the cause and effect relationships pertaining to the class size issue are highly complex and interlocked with many other variables. The research provides no clear-cut guidelines for an "optimum" class size covering all types of students at all grade levels. Students at different levels of personal and academic development require different learning conditions in order for optimum gains in achievement to occur.

Conclusions from the 1978 Educational Research Service Brief on Class Size.

1. Research findings on class size repeatedly indicate that the relationship between pupil achievement and class size is highly complex.

2. There is a general consensus that the research findings on the effects of class size on pupil achievement across all grade levels are contradictory and inconclusive.

3. Research to date provides no support for the concept of an "optimum" class size in isolation of other factors. Rather, the indicators are that efficient class sizes are a product of many variables including subject area, nature and number of pupils in the classroom, nature of learning objectives, availability of materials and facilities, instructional methods and procedures used, skills and temperament of the teacher and support staff, and budgetary constraints.

4. Existing research findings do not support the contention that smaller classes will, of themselves, result in greater academic achievement gains for pupils. Within the mid-range of about 25 to 34 pupils, class size seems to have little, if any, decisive impact on the academic achievement of most pupils in most subjects above the primary grades.

5. There is research evidence that small classes are important to increased pupil achievement in reading and mathematics in the early primary grades.

6. There is some evidence of a positive relationship between small class size and pupil achievement when primary grade pupils are taught in small classes for two or more consecutive years.

7. There is evidence that pupils with lower academic ability tend to benefit more from smaller classes than do pupils with average ability.

8. Some research indicates that smaller classes can positively affect the scholastic achievement of economically or socially disadvantaged pupils.

9. Research on class size suggests the importance of an emphasis on the methods and quality of instruction in the classroom rather than on the quantity of pupils in the classroom.

10. There is considerable and consistent research evidence that certain teaching procedures and practices perceived by some educators as conducive to a productive learning environment (e.g., more individualization, creativity, group activity, and interpersonal regard) occur more frequently in smaller classes than in larger classes.

11. Few, if any, pupil benefits can be expected from reducing class size if teachers continue to use the same instructional methods and procedures in the smaller classes that they use in the larger classes.

12. Some studies have found that even when teachers have smaller classes, many teachers do not take advantage of them to individualize instruction.

13. Smaller classes appear to have a positive effect on pupil behavior in the elementary grades. At the secondary school level, some studies, but not others, have indicated that smaller classes influence student perceptions about their courses and their satisfaction with them.

14. Researchers who have attempted to measure achievement gains in smaller classes over a relatively short period of time may not have allowed enough time for the desired changes to occur. Since some researchers have found that smaller classes must bring with them changes in instructional methods and teacher behavior before improved learning can take place, more longitudinal studies are needed to measure the effects of such possible changes over time.

15. Opinion polls have consistently indicated that most teachers perceive large classes as a major factor negatively influencing teacher morale and job satisfaction plus the academic performance, personal development, and social development of pupils. Results of national opinion polls conducted among elementary school teachers indicate that about half of the teachers polled believed they could do their most effective teaching with a class containing 20 to 24 pupils and about one-third believed they could do their best teaching with a class containing 25 to 29 pupils.

16. Opinion polls show that the majority of the public perceives small classes as being of major importance to pupil achievement and progress.

17. Class size is a major determinant of school system budgets. Even small system-wide changes of one or two pupils per class can have major impact on a school system's budget.

18. In terms of pupil benefits, research findings fail to justify small overall reductions in class size or pupil-teacher ratio by a school board merely as a matter of general policy without definite pupil-benefit objectives for specific groups of pupils.

19. Policy decisions pertaining to class size and pupil-teacher ratio involve factors that are complex, varied, and often emotionally charged. These require the weighing of the possible pupil benefits, the possible teacher benefits, the facilities utilized, the financial costs, and the possible political consequences.

Critique of the Technical Report on Year One (1985-86) of Project STAR: The Student/Teacher Achievement Ratio

Tennessee state legislators authorized and funded a major study to consider the effects of class size on pupils in primary (K-3) grades in 1985. Legislators wanted the state to conduct a well-designed study of class size before investing in a costly new program. The study, Project STAR, explored the 1:15 range suggested by the Glass analysis and other research. The Glass meta-analysis research suggests that class size must be reduced to about 15 to 1 to have much effect on pupil achievement. Project Star's technical report cited the criticism by the Educational Research Service (ERS) of the Glass analysis. The ERS in its critique noted that the type of school and pupil characteristics in small classes used in the Glass analysis are unrepresentative of the average public school student, and some of the "small classes" were actually tutoring groups. Some researchers have postulated that the relationship between class size and various outcomes are not linear, but are better represented as "break points" where student achievement seems to increase. These break points seem to be at student/teacher ratios of approximately 5:1, 15:1, 25:1, and 40:1.

An analysis from the first year of the program (grade K) indicated the following:

1. The small classes have significantly higher achievement scores on all four measures.

2. The small classes have significantly higher self-concept scores, but not higher academic motivation scores.

3. Kindergarten classes for inner city locations had the greatest benefit from small classes.

4. Results indicate that teacher effect is important.

5. Teachers of small classes indicated significantly fewer problems in their use of time.

6. There was little evidence that student achievement accelerated as class size dropped. (No "turning point" was evident in the data.)

7. High socioeconomic students outperformed low socioeconomic students on the average in reading and mathematics, and again both were equally advantaged by the small classes. (This finding is not consistent with other studies that did find that smaller classes were more beneficial to low socioeconomic students.)

8. Teachers reported that they planned and carried out more difficult or complicated enrichment activities such as field trips, cooking experiences, and art activities than they had in the past.

9. Teachers of small classes reported fewer classroom discipline problems.

10. Students in small classes had an appropriate one-month achievement advantage over students in regular classes in reading and slightly more than a month's advantage in mathematics.

The longitudinal study represented by Project Star is still on-going and, thus, has not been completed. Moreover, the conclusions from the first year of the project have not withstood the test of research.

The first year results of Project Star, however, did cause the project's researchers to render several hypotheses:

1. Class size is best conceptualized as a facilitative variable. It permits, but does not assure, other changes in the instructional process which could be the proximate cause of observed differences.

2. Reducing class size increases teacher motivation and enthusiasm; this causes the teacher to teach better and that increases student learning. Research has indicated that the amount of direct teaching and contact between teachers and students will increase student learning.

3. Reducing class size increases the amount of direct interaction that each teacher has with each pupil, and direct interactions facilitate student learning.

4. A smaller class enables a teacher to diagnose student learning needs more completely and keep up with the progress of each student. If students don't master the topic, the teacher can give them individual attention.

5. Reducing class size reduces the sheer amount of noise, commotion and confusion in a classroom, and this reduces distractions that interfere with pupil learning.

6. Any change, and the result increased or decreased attention bestowed on the teacher/class will cause changes in "output," or learning (Hawthorne Effect).

7. Pupil-to-pupil interaction is less diffuse in smaller classes, and the positive benefit of correct pupil response is more pronounced on each pupil.

Nationally Cited Research Studies

Glass and Smith (1979): Using a statistical technique called "meta-analysis" that allowed simultaneous consideration of the results of many studies on class size, the researchers examined the results of over 80 of these works that have been completed since 1900. Relying strongly on the 14 "best" studies of the modern (post 1950) periods, they concluded that when there are between 20 and 40 students in a class, student achievement remains largely insensitive to changes in class size. Other things equal, 40 students taught together will learn about 5 percent less than 20 will. Fifteen students is the class size that first provides a significant improvement in student achievement that is statistically defensible.

Educational Research Service (1986): A recent review of class size specifies that there seems to be positive results of reduced class size under certain conditions. Reduced class size in elementary grades and for lower socioeconomic status children seem to have a positive impact on student cognitive and affective gains.

Bain, et al. (1988): A three-year class size reduction in Metro-Nashville was conducted by Tennessee state educators. Two groups of students were followed from the first grade through the third grade. The experimental group was taught in classes of 15 pupils and the control group in classes of about 25 pupils. In 1985, the research indicated that first-grade results showed higher standardized test results for students in the smaller classes. In 1988, the research indicated that as the same cohorts of students remaining in the same-sized classes moved through second and third grades,

achievement results became less conclusive. Standardized test scores for small-class and large-class students evened out, but scores on basic skills objectives in the district's curriculum continued to favor small classes. A measure of student self-concept favored the small class group (although this was not statistically significant). Comparisons of other nonacademic factors, such as attendance and behavior, showed mixed results.

Tillitski, et al. (1988): A three year class size reduction in North Gibson County was conducted by Indiana state educators. The study follows two cohorts of students from first grade through third grade comparing their standardized test scores each year. Class size reduction in North Gibson was carried out in response to Indiana's state-mandated PRIME TIME class reduction project. Average class sizes were reduced from 23.1 to 19.9 in grade one, from 20.5 to 17.4 in grade two, and from 24.0 to 18.0 in grade three. As in the Nashville study, results on standardized achievement tests in grade one favored the small class cohort, but the differences in the two cohorts had disappeared by the end of grade three.

Whittington (1985): This study identifies some differential impacts of class size on students. First-grade students from lower socioeconomic status backgrounds gain relatively more than do students from "regular" backgrounds.

Hebbeler (1985): This on-going study suggests that students in classes with reduced sizes will retain a residual benefit and move more normally through the educational system.

Berger (1982), Robinson and Wittebols (1986): The researchers assumed in their studies that class size was not a central issue. Berger argued that "assuming a limited amount of recourse, how can we arrange the various elements of the teaching-learning situation so that teachers can teach at some minimal level of acceptability and students can learn in the most conducive educational setting?" In line with Berger, Robinson and Wittebols examined the same evidence that Glass and Smith reviewed. However, rather than confining their attention to the relationship of class size to achievement, they reviewed attendant variables such as grade level, subject, teaching practices, and student attitudes. They found that "The relationships between class size and pupil achievement vary greatly across grade levels, among subject areas, and by methods of instruction." They concluded that the better question was "which students might benefit from smaller classes and under what conditions?"

Ryan and Greenfield (1975): The researchers indicated that two subject areas, English and mathematics which are cumulative subjects, are both the most popular choices for researchers interested in the effects of class size on achievement, and they are the two areas that virtually all

research at the elementary level has been conducted. They determined within their study that with few exceptions the evidence in favor of small classes is restricted to reading in the primary grades; where small classes are favored in higher grades, their effects apply most often to students of below-average ability; where longitudinal experiments or surveys were conducted, and the cumulative effect of small classes on achievement was positive. They made the following conclusions:

1. At the elementary level, if a teacher feels a class to be small, he/she is more likely to attempt to individualize the instruction. However, small classes are no guarantee that individualization will occur. The training and ability of the teacher will determine how he adapts to the situation.

2. At the elementary level, relatively small classes appear to have a cumulative effect.

3. Individualization of instruction is most likely to occur in the earliest grade, especially in reading.

4. Class size does not appear to have a significant influence on student attitudes, but teachers are virtually unanimous in the belief that small classes enhance their effectiveness.

5. The most important variable in the classroom situation is the teacher. Class size research has failed to adequately control or manipulate the teacher variable, until this is done, a complete picture of the effects of class size will not exist.

Sabrio, Pechman, Rubin (1982): In this study on reduced class size and its effect on achievement of high-need first-grade students, additional teachers were placed in 10 elementary schools characterized as being "high need" educational settings. Schools were ranked according to greatest need of assistance through four specified discriminating variables: (1) reading and math test scores, (2) pupil/teacher ratio, (3) free lunch participation, and (4) percent Aid to Dependent Children recipients. Experimental classes did not receive any additional instructional services beyond those provided to all first grade classes in each school.

Results indicated that lower pupil/teacher ratio substantially effected overall achievement of students in reading and mathematics. In addition, parents, principals, and teachers made overwhelmingly favorable comments regarding the concept of reduced class size and its effects on student achievement and self-concept. Teachers also reported implementing more effective and more individualized

teaching in the reduced class size as implicitly advantageous for their children. Recommendations from the researcher included continuing the reduced class size program for a new group of students the next year and expanding the reduced class size program in the second grade. (Research suggests that lowering pupil/teacher ratios is optimally effective with elementary school students who participate in such programs for at least two consecutive years.)

Aftreth (1965), Frymier (1964), Balow (1969), and Woodson (1968): These studies indicated that the time in a student's school career when he is exposed to small classes is an important factor. Small class students outscored large class students even though their readiness scores were lower at the beginning of Grade 1. The lower class size is most effective in producing measured achievements in the lowest grade level but the effect diminishes for the third grade level.

Danowski (1965): This study strongly suggests that individualizing instruction, at least in the early years, can have positive effects on student learning. Small classes provide a setting more conducive to individualized instruction, that primary level teachers are the ones most likely to exploit the opportunity, and therefore, that it is only the primary level where the effects of small classes would best be utilized. Longitudinal studies suggest that smaller classes in the early years of schooling because of individualization have a "carry-over" effect in later grade levels. Achievement scores in subjects that are essentially cumulative in nature, also reveal cumulative effects of learning. Scores on achievement tests in almost any subject correlate strongly with verbal skills (e.g., reading ability).

Pugh (1965): This study argues that many teachers have developed skills and techniques of teaching more applicable to classes of more than 20 students. The researchers and Habeman and Larsen (1969) suggest that teachers be trained in the skills to teach small classes.

Conclusion

The Standards of Quality for Public Schools in Virginia, July 1988, mandates that certified instructional personnel be assigned by each school board in a manner that produces divisionwide ratios of students in average daily membership to full-time equivalent teaching positions, excluding special education teachers, principals, assistant principals, counselors, and librarians that are not greater than the following ratios: (1) twenty-five to one in kindergarten with no class being larger than thirty; if the average daily membership in any kindergarten class exceeds twenty-five pupils, a full-time teacher's aide shall be assigned to the class; (2) twenty-four to one in grade one with no

class being larger than thirty students; (3) twenty-five to one in grades two and three with no class being larger than thirty students; (4) twenty-five to one in grades four through six with no class being larger than thirty-five students. All kindergarten classes in the school division have an aide (teacher's assistant). This differs from the Southern Association of Colleges and Schools which requires an aide for any first-, second-, and third-grade class with 29 to 33 students.

Current research on the reduction of class size supports the concept of smaller class size in the primary grades. Reduced class size can have a significant positive impact on student reading and mathematics achievement and student self-concept and behavior, in particular, those primary students from lower socioeconomic background who may be classified by educators as those students who are potentially "at risk."

Tables 1 through 4 provide a series of methods and their attendant costs by which adult/pupil ratios may be reduced or altered.

Table 1 provides a summary of the personnel and building needs and costs to reduce the average teacher/student ratio to 1:24 in each elementary school in grades K through 2. (Some actual class ratios may be less than 1:24 and some may be more than 1:24.) The 1989-90 enrollment projections are based on figures from the Educational Planning Center. The projected teacher's salary, $38,150 for 1989-90, is based on the state-mandated average salary of $29,994 plus 24.19% salary-related fringe benefits and $900 for employer paid health insurance premiums. The cost of the prefabricated (portable) classrooms, $ 24,273, is the total cost associated with the purchase, set up, and furnishing of the classroom.

Classroom projections do not take into consideration the anticipated opening of three new elementary schools with approximately a 900 student capacity in 1989-90. The average number of kindergarten, first-grade, and second-grade classrooms which might be made available from the opening of the three elementary schools might be 15 classrooms for kindergarten, 18 classrooms for first grade, and 18 classrooms for second grade.

Table 2 provides a summary of the personnel and building needs and costs to reduce the maximum teacher/student ratio from 1:24 to 1:15. As in Table 1, the 1989-90 enrollment is projected for each elementary school for grades K through 1, a teacher's salary including benefits is projected to be $38,150 and the cost of a prefabricated (portable) classroom is projected to be $24,273. As in Table 1, classroom projections do not take into consideration the anticipated opening of three new elementary schools with approximately a

900 student capacity in 1989-90. Again, the average number of kindergarten, first-grade, and second-grade classrooms which might be made available from the opening of the three additional elementary schools might be 15 classrooms for kindergarten, 18 classrooms for first grade, and 18 classrooms for second grade. These classrooms can thus be subtracted from the total number of portable units needed to house additional sections of classes needed to reduce the teacher/student ratio to decrease the need for additional portable classroom units.

Table 3 provides a summary of the projected costs for teachers assistants in grades one and two for classes which exceed a 1:24 teacher/student ratio. The number of class sections which exceed the 1:24 ratio was determined by the number of sections which exceeded 1:24 for 1988-89 on the Class Size in Primary School Report prepared by the Educational Planning Center in October 1988. The projected salary for a teacher assistant is based on $10,500.

Table 4 provides a summary of the projected costs for personnel, classrooms, materials/supplies, and staff development to extend the transitional first-grade program into additional elementary schools. The current pilot program for transitional first grade, which has been implemented in six elementary schools, operates under the philosophical assumption that "developmentally young children are entitled to an instructional program that will respect their unique rate and pattern of growth, provide for all phases of their maturational development, and strive to reduce the likelihood of their becoming 'at-risk' students."

Once the current pilot program for transitional first grade is evaluated, and if it is found to be effective, a five-year implementation calendar can be developed to expand the program into additional elementary schools. The sequence of implementation in elementary schools might be determined based on the schools which have the highest number and/or percentage of kindergarten students retained. Table 5 presents the number and percentage of students retained in kindergarten in 1987-88. Figures indicating the number of students retained in Grade K may actually be more than those presented in Tables 5. Some students who would have been retained are granted waivers. Those students may also be among those who are enrolled in a transitional first-grade class. Also, another factor important in the selection of those schools which might house a transitional first-grade program would be those schools which have the highest number and percentage of students which score in the bottom quartile of the pre-reading section of the Metropolitan Readiness Test. Based on the number and percentage of students retained in kindergarten and the number and percentage of students who may score in the bottom quartile of the Metropolitan Readiness Test, a need may not exist to

establish a transitional first-grade class in every elementary school, but a need may exist to establish more than one transitional first-grade class in some elementary schools.

Table 6 presents the comparative costs of the four options presented in Tables 1 through 3. Those options include (1) scheduling classes in Grades K through 2 with an average teacher/student ratio of 1:24, (2) scheduling classes in Grades K through 2 with a maximum teacher/student ratio of 1:24 decreasing to a ratio of 1:15; (3) providing an teacher assistant for each class in Grades 1 and 2 when the enrollment in the class exceeds 1:24; and (4) extending the transitional first-grade program to additional elementary schools.

TABLE 1

Summary of Projected Teacher/Classroom Needs and Costs to Maintain a School Average Teacher/Student Ratio of 1:24

TABLE 1

SUMMARY OF PROJECTED TEACHER/CLASSROOM NEEDS AND COSTS
Teacher/Student Class Size Average 1:24

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teachers Needed for 1:24 Ratio		Portable Units Needed for Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Alanton	K	146	130	3		-0.5	-19,075	0	0
	1	152	156	5	5	2	76,300	2	48,546
	2	132	154	5		1	38,150	1	24,273
Arrowhead	K	80	74	2		-0.5	-19,075	0	0
	1	94	104	4	0	0	0	0	0
	2	95	99	4		0	0	0	0
Bayside	K	114	116	2.5		0	0	0	0
	1	125	124	5	1	1	38,150	1	24,273
	2	105	115	4		1	38,150	1	24,273
Birdneck	K	398	430	7		2	76,300	2	48,546
	1	352	428	13	10	5	190,750	5	121,365
	2	341	352	12		3	114,450	3	72,819
Brookwood	K	107	110	2.5		0	0	0	0
	1	110	117	5	5	0	0	0	0
	2	114	125	5		0	0	0	0
Centerville	K	166	174	3.5		0	0	0	0
	1	154	176	6	9	1	38,150	1	24,273
	2	180	168	7		0	0	0	0
Subtotals				95.5	30	15	572,250	16	388,368

TABLE 1

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teachers Needed for 1:24 Ratio		Portable Units Needed for Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
College Park	K	106	124	3		0.5	19,075	1	24,273
	1	138	126	6	4	-1	-38,150	-1	-24,273
	2	114	150	5		1	38,150	1	24,273
Cooke	K	83	86	2		-0.5	-19,075	0	0
	1	115	103	5	2	-1	-38,150	-1	-24,273
	2	82	123	4		1	38,150	1	24,273
Creeds	K	40	30	1		0	0	0	0
	1	61	51	3	0	-1	-38,150	-1	-24,273
	2	62	66	3		0	0	0	0
Dey	K	94	96	2		0	0	0	0
	1	92	104	4	0	0	0	0	0
	2	105	107	4		0	0	0	0
Fairfield	K	130	140	3		-0.5	-19,075	0	0
	1	135	145	6	5	0	0	0	0
	2	140	149	6		0	0	0	0
Green Run	K	114	118	2		0.5	19,075	1	24,273
	1	159	154	6	2	0	0	0	0
	2	124	184	5		2	76,300	2	48,546
Subtotals				70	13	1	38,150	3	72,819

TABLE 1

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teachers Needed for 1:24 Ratio		Portable Units Needed for Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
ermitage	K	108	118	3		0.5	19,075	1	24,273
	1	128	138	5	2	-1	-38,150	-1	-24,273
	2	108	130	4		0	0	0	0
olland	K	138	142	3		0	0	0	0
	1	169	168	7	10	0	0	0	0
	2	147	174	6		1	38,150	1	24,273
dian Lakes	K	162	172	3		0.5	19,075	1	24,273
	1	149	162	6	6	1	38,150	1	24,273
	2	175	191	7		1	38,150	1	24,273
emps. Meadows	K	115	120	2		0.5	19,075	1	24,273
	1	128	135	5	8	1	38,150	1	24,273
	2	153	128	6		0	0	0	0
empsville	K	63	70	1.5		0	0	0	0
	1	94	93	4	0	0	0	0	0
	2	87	94	3		1	38,150	1	24,273
ng's Grant	K	128	132	3.5		0	0	0	0
	1	128	138	5	4	1	38,150	1	24,273
	2	123	128	5		1	38,150	1	24,273
Subtotals				79	30	7.5	286,125	9	218,457

TABLE 1

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teachers Needed for 1:24 Ratio		Portable Units Needed for Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Kingston	K	95	101	2		0	0	0	0
	1	110	115	4	2	1	38,150	1	24,273
	2	101	110	4		1	38,150	1	24,273
Linkhorn Park	K	124	128	3		0	0	0	0
	1	139	144	5	4	1	38,150	1	24,273
	2	121	129	5		0	0	0	0
Luxford	K	92	102	2		-0.5	-19,075	0	0
	1	90	102	4	2	0	0	0	0
	2	109	90	4		0	0	0	0
Lynnhaven	K	89	96	2		0	0	0	0
	1	110	109	5	1	-0.5	-19,075	0	0
	2	88	100	4		1	38,150	1	24,273
Malibu	K	65	75	1.5		1	38,150	1	24,273
	1	74	85	3	1	1	38,150	1	24,273
	2	70	74	3		0	0	0	0
N. Landing	K	115	120	3.5		-1	-38,150	-1	-24,273
	1	129	145	6	2	0	0	0	0
	2	116	151	5		1	38,150	1	24,273
Subtotals				66	12	5	190,750	6	145,638

TABLE 1

hool	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teachers Needed for 1:24 Ratio		Portable Units Needed for Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
wtown Rd.	K	125	130	3		0	0	0	0
	1	142	135	6	1	0	0	0	0
	2	114	132	5		1	38,150	1	24,273
rkway	K	186	196	4		0	0	0	0
	1	154	196	6	1	1	38,150	2	48,546
	2	147	154	6		0	0	0	0
mbroke	K	101	110	2.5		0	0	0	0
	1	107	121	5	4	1	38,150	1	24,273
	2	109	107	4		0	0	0	0
mb. Meadows	K	104	112	2		0	0	0	0
	1	103	114	4	0	0	0	0	0
	2	104	103	4		0	0	0	0
za	K	106	107	2		0	0	0	0
	1	113	126	4	3	1	38,150	1	24,273
	2	101	113	4		1	38,150	1	24,273
nt O'View	K	153	163	3		0.5	19,075	1	24,273
	1	128	153	5	1	0	0	0	0
	2	127	128	5		0	0	0	0
Subtotals				74.5	10	5.5	209,825	7	169,911

TABLE 1

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teachers Needed for 1:24 Ratio		Portable Units Needed for Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Princess Anne	K	167	180	3		0.5	19,075	1	24,273
	1	170	197	6	12	2	76,300	2	48,546
	2	165	170	6		2	76,300	2	48,546
Providence	K	100	110	3		0	0	0	0
	1	140	130	6	2	-0.5	-19,075	0	0
	2	113	130	5		0	0	0	0
Rosemont	K	181	183	4		0	0	0	0
	1	161	181	7	5	0	0	0	0
	2	146	151	6		0	0	0	0
Rosemont Forest	K	231	273	5		1	38,150	1	24,273
	1	242	271	9	14	2	76,300	2	48,546
	2	245	249	9		1	38,150	1	24,273
Salem	K	167	220	4		1	38,150	1	24,273
	1	180	207	7	5	1	38,150	1	24,273
	2	167	180	7		1	38,150	1	24,273
Seatack	K	138	145	3		0	0	0	0
	1	140	138	5	1	0	0	0	0
	2	101	130	4		1	38,150	1	24,273
Subtotals				99	39	12	457,800	13	315,549

TABLE 1

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teachers Needed for 1:24 Ratio		Portable Units Needed for Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
helton Park	K	85	105	2		0	0	0	0
	1	97	95	4	1	0	0	0	0
	2	75	97	3		0	0	0	0
halia	K	121	126	2.5		0	0	0	0
	1	117	121	5	3	0	0	0	0
	2	109	107	5		0	0	0	0
horoughgood	K	90	96	2		0	0	0	0
	1	97	100	4	2	0	0	0	0
	2	99	97	4		0	0	0	0
antwood	K	128	138	3		0	0	0	0
	1	131	138	5	6	0	0	0	0
	2	123	131	5		0	0	0	0
hite Oaks	K	142	151	3		0	0	0	0
	1	173	162	7	1	0	0	0	0
	2	151	163	6		1	38,150	1	24,273
illiams	K	125	130	3		0	0	0	0
	1	130	135	7	4	1	38,150	1	24,273
	2	145	130	6		0	0	0	0
Subtotals				76.5	17	2	76,300	2	48,546

TABLE 1

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teachers Needed for 1:24 Ratio		Portable Units Needed for Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Windsor Oaks	K	93	98	2.5		0	0	0	0
	1	121	113	5	2	0	0	0	0
	2	108	111	5		0	0	0	0
Windsor Woods	K	95	100	2		0	0	0	0
	1	87	95	4	0	0	0	0	0
	2	92	87	4		0	0	0	0
Woodstock	K	114	124	3		0	0	0	0
	1	138	135	5	0	1	38,150	0	0
	2	120	128	5		0	0	0	0
Subtotals				35.5	2	1	38,150	0	0
Totals				596	153	49	1,869,350	56	1,359,288

TABLE 2

Summary of Projected Teacher/Classroom Needs and Costs
(Maximum Teacher/Student Ratios of 1:24 to 1:15)

TABLE 2

SUMMARY OF PROJECTED TEACHER/CLASSROOM NEEDS AND COSTS
(for Maximum Teacher/Student Ratios of 1:24 to 1:15)

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teacher/ Student Ratio 1:24		Portable Units Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Alanton	K	146	130	3		0	0	0	0
	1	152	156	5	5	2	76,300	2	48,546
	2	132	154	5		2	76,300	2	48,546
Arrowhead	K	80	74	2		0	0	0	0
	1	94	104	4	0	1	38,150	0	0
	2	95	99	4		1	38,150	0	0
Bayside	K	114	116	2.5		0.5	19,075	0	0
	1	125	124	5	1	1	38,150	1	24,273
	2	105	115	4		1	38,150	1	24,273
Birdneck	K	398	430	7		2	76,300	2	48,546
	1	352	428	13	10	5	190,750	5	121,365
	2	341	352	12		3	114,450	3	72,819
Brookwood	K	107	110	2.5		0	0	0	0
	1	110	117	5	5	1	38,150	1	24,273
	2	114	125	5		1	38,150	1	24,273
Centerville	K	166	174	3.5		0.5	19,075	0	0
	1	154	176	6	9	2	76,300	2	48,546
	2	180	168	7		0	0	0	0
Subtotals				95.5	30	23	877,450	20	485,460

TABLE 2

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teacher/ Student Ratio 1:24		Portable Units Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
College Park	K	106	124	3		0	0	0	0
	1	138	126	6	4	0	0	0	0
	2	114	150	5		2	76,300	2	48,546
Cooke	K	83	86	2		0	0	0	0
	1	115	103	5	2	0	0	0	0
	2	82	123	4		1	38,150	1	24,273
Creeds	K	40	30	1		0	0	0	0
	1	61	51	3	0	0	0	0	0
	2	62	66	3		0	0	0	0
Dey	K	94	96	2		0	0	0	0
	1	92	104	4	0	1	38,150	0	0
	2	105	107	4		1	38,150	0	0
Fairfield	K	130	140	3		0	0	0	0
	1	135	145	6	5	1	38,150	1	24,273
	2	140	149	6		1	38,150	1	24,273
Green Run	K	114	118	2		0.5	19,075	1	24,273
	1	159	154	6	2	1	38,150	1	24,273
	2	124	184	5		3	114,450	3	72,819
Subtotals				70	13	11.5	438,725	10	242,730

TABLE 2

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teacher/ Student Ratio 1:24		Portable Units Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Hermitage	K	108	118	3		0	0	0	0
	1	128	138	5	2	1	38,150	1	24,273
	2	108	130	4		2	76,300	2	48,546
Holland	K	138	142	3		0	0	0	0
	1	169	168	7	10	0	0	0	0
	2	147	174	6		2	76,300	2	48,546
Indian Lakes	K	162	172	3		1	38,150	1	24,273
	1	149	162	6	6	1	38,150	1	24,273
	2	175	191	7		1	38,150	1	24,273
Kemps. Meadows	K	115	120	2		0.5	19,075	1	24,273
	1	128	135	5	8	1	38,150	1	24,273
	2	153	128	6		0	0	0	0
Kempsville	K	63	70	1.5		0	0	0	0
	1	94	93	4	0	0	0	0	0
	2	87	94	3		1	38,150	0	0
King's Grant	K	128	132	3.5		0.5	19,075	0	0
	1	128	138	5	4	1	38,150	1	24,273
	2	123	128	5		1	38,150	1	24,273
Subtotals				79	30	13	495,950	12	291,276

TABLE 2

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teacher/ Student Ratio 1:24		Portable Units Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Kingston	K	95	101	2		1	38,150	1	24,273
	1	110	115	4	2	1	38,150	1	24,273
	2	101	110	4		1	38,150	1	24,273
Linkhorn Park	K	124	128	3		0	0	0	0
	1	139	144	5	4	1	38,150	1	24,273
	2	121	129	5		1	38,150	1	24,273
Luxford	K	92	102	2		0.5	19,075	1	24,273
	1	90	102	4	2	1	38,150	1	24,273
	2	109	90	4		0	0	0	0
Lynnhaven	K	89	96	2		0	0	0	0
	1	110	109	5	1	0	0	0	0
	2	88	100	4		1	38,150	1	24,273
Malibu	K	65	75	1.5		2	76,300	2	48,546
	1	74	85	3	1	1	38,150	1	24,273
	2	70	74	3		1	38,150	1	24,273
N. Landing	K	115	120	3.5		0	0	0	0
	1	129	145	6	2	1	38,150	1	24,273
	2	116	151	5		2	76,300	2	48,546
Subtotals				66	12	14.5	553,175	15	364,095

TABLE 2

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teacher/ Student Ratio 1:24		Portable Units Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Newtown Rd.	K	125	130	3		0	0	0	0
	1	142	135	6	1	0	0	0	0
	2	114	132	5		1	38,150	1	24,273
Parkway	K	186	196	4		0.5	19,075	1	24,273
	1	154	196	6	1	3	114,450	3	72,819
	2	147	154	6		1	38,150	1	24,273
Pembroke	K	101	110	2.5		0	0	0	0
	1	107	121	5	4	1	38,150	1	24,273
	2	109	107	4		1	38,150	1	24,273
Pemb. Meadows	K	104	112	2		0.5	19,075	0	0
	1	103	114	4	0	1	38,150	0	0
	2	104	103	4		1	38,150	0	0
Plaza	K	106	107	2		0.5	19,075	1	24,273
	1	113	126	4	3	2	76,300	2	48,546
	2	101	113	4		1	38,150	1	24,273
Point O'View	K	153	163	3		0.5	19,075	1	24,273
	1	128	153	5	1	2	76,300	2	48,546
	2	127	128	5		1	38,150	1	24,273
Subtotals				74.5	10	17	648,550	16	388,368

TABLE 2

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teacher/ Student Ratio 1:24		Portable Units Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Princess Anne	K	167	180	3		1	38,150	1	24,273
	1	170	197	6	12	3	114,450	3	72,819
	2	165	170	6		2	76,300	2	48,546
Providence	K	100	110	3		0	0	0	0
	1	140	130	6	2	0	0	0	0
	2	113	130	5		1	38,150	1	24,273
Rosemont	K	181	183	4		0	0	0	0
	1	161	181	7	5	1	38,150	1	24,273
	2	146	151	6		1	38,150	2	48,546
Rosemont Forest	K	231	273	5		1	38,150	1	24,273
	1	242	271	9	14	3	114,450	3	72,819
	2	245	249	9		2	76,300	1	24,273
Salem	K	167	220	4		1	38,150	1	24,273
	1	180	207	7	5	2	76,300	2	48,546
	2	167	180	7		1	38,150	1	24,273
Seatack	K	138	145	3		0.5	19,075	1	24,273
	1	140	138	5	1	1	38,150	1	24,273
	2	101	130	4		2	76,300	2	48,546
Subtotals				99	39	22.5	858,375	23	558,279

TABLE 2

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teacher/ Student Ratio 1:24		Portable Units Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Shelton Park	K	85	105	2		0.5	19,075	1	24,273
	1	97	95	4	1	0	0	0	0
	2	75	97	3		2	76,300	2	48,546
Thalia	K	121	126	2.5		0.5	19,075	1	24,273
	1	117	121	5	3	1	38,150	1	24,273
	2	109	107	5		0	0	0	0
Thoroughgood	K	90	96	2		0	0	0	0
	1	97	100	4	2	1	38,150	1	24,273
	2	99	97	4		1	38,150	0	0
Trantwood	K	128	138	3		0	0	0	0
	1	131	138	5	6	1	38,150	1	24,273
	2	123	131	5		1	38,150	1	24,273
White Oaks	K	142	151	3		0.5	19,075	1	24,273
	1	173	162	7	1	0	0	0	0
	2	151	163	6		1	38,150	1	24,273
Williams	K	125	130	3		0	0	0	0
	1	130	135	7	4	0	0	0	0
	2	145	130	6		0	0	0	0
Subtotals				76.5	17	9.5	362,425	10	242,730

TABLE 2

School	Grade Level	Current Enrollment	Projected 1989 Enrollment	Number of Current Teachers	Current Portable Units	Teacher/ Student Ratio 1:24		Portable Units Ratio 1:24	
						Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Windsor Oaks	K	93	98	2.5		0	0	0	0
	1	121	113	5	2	0	0	0	0
	2	108	111	5		0	0	0	0
Windsor Woods	K	95	100	2		0.5	19,075	0	0
	1	87	95	4	0	0	0	0	0
	2	92	87	4		0	0	0	0
Woodstock	K	114	124	3		0	0	0	0
	1	138	135	5	0	1	38,150	0	0
	2	120	128	5		1	38,150	0	0
Subtotals				35.5	2	2.5	95,375	0	0
Totals				596	153	113.5	4,330,025	106	2,572,938

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:23 Number of Teachers	Teacher/ Student Ratio 1:23 Salaries and Benefits	Portable Units Ratio 1:23 Number of Units	Portable Units Ratio 1:23 Cost for Units	Teacher/ Student Ratio 1:22 Number of Teachers	Teacher/ Student Ratio 1:22 Salaries and Benefits	Portable Units Ratio 1:22 Number of Units	Portable Units Ratio 1:22 Cost for Units
Alanton	K	0	0	0	0	0	0	0	0
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	2	76,300	2	48,546	2	76,300	2	48,546
Arrowhead	K	0	0	0	0	0	0	0	0
	1	1	38,150	1	24,273	1	38,150	0	0
	2	1	38,150	1	24,273	1	38,150	0	0
Bayside	K	0.5	19,075	0	0	0.5	19,075	0	0
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	1	38,150	1	24,273	2	76,300	2	48,546
Birdneck	K	2.5	95,375	2	48,546	3	114,450	3	72,819
	1	6	228,900	6	145,638	7	267,050	7	169,911
	2	4	152,600	4	97,092	4	152,600	4	97,092
Brookwood	K	0	0	0	0	0	0	0	0
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	1	38,150	1	24,273	1	38,150	1	24,273
Centerville	K	0.5	19,075	0	0	0.5	19,075	0	0
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	1	38,150	1	24,273	1	38,150	1	24,273
Subtotals		26.5	1,010,975	25	606,825	30	1,144,500	27	655,371

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:23 Number of Teachers	Teacher/ Student Ratio 1:23 Salaries and Benefits	Portable Units Ratio 1:23 Number of Units	Portable Units Ratio 1:23 Cost for Units	Teacher/ Student Ratio 1:22 Number of Teachers	Teacher/ Student Ratio 1:22 Salaries and Benefits	Portable Units Ratio 1:22 Number of Units	Portable Units Ratio 1:22 Cost for Units
College Park	K	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0
	2	2	76,300	2	48,546	3	114,450	3	72,819
Cooke	K	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0
	2	2	76,300	2	48,546	2	76,300	2	48,546
Creeds	K	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0
Dey	K	0	0	0	0	0.5	19,075	0	0
	1	1	38,150	0	0	1	38,150	0	0
	2	1	38,150	0	0	1	38,150	0	0
Fairfield	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	1	38,150	1	24,273	1	38,150	1	24,273
Green Run	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	3	114,450	3	72,819	4	152,600	4	97,092
Subtotals		13	495,950	12	291,276	16	610,400	14	339,822

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:23 Number of Teachers	Teacher/ Student Ratio 1:23 Salaries and Benefits	Portable Units Ratio 1:23 Number of Units	Portable Units Ratio 1:23 Cost for Units	Teacher/ Student Ratio 1:22 Number of Teachers	Teacher/ Student Ratio 1:22 Salaries and Benefits	Portable Units Ratio 1:22 Number of Units	Portable Units Ratio 1:22 Cost for Units
Hermitage	K	0	0	0	0	0	0	0	0
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
Holland	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	2	76,300	2	48,546	2	76,300	2	48,546
Indian Lakes	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
Kemps. Meadows	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	0	0	0	0	0	0	0	0
Kempsville	K	0.5	19,075	0	0	0.5	19,075	0	0
	1	1	38,150	0	0	1	38,150	0	0
	2	2	76,300	1	24,273	2	76,300	1	24,273
King's Grant	K	0.5	19,075	0	0	0.5	19,075	0	0
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	1	38,150	1	24,273	1	38,150	1	24,273
Subtotals		19.5	743,925	17	412,641	22.5	858,375	20	485,460

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:23		Portable Units Ratio 1:23		Teacher/ Student Ratio 1:22		Portable Units Ratio 1:22	
		Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units	Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Kingston	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	1	38,150	1	24,273	2	76,300	2	48,546
Linkhorn Park	K	0	0	0	0	0	0	0	0
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	1	38,150	0	0	1	38,150	1	24,273
Luxford	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	0	0	1	24,273	1	38,150	1	24,273
	2	0	0	0	0	1	38,150	1	24,273
Lynnhaven	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	0	0	0	0	0	0	0	0
	2	1	38,150	1	24,273	1	38,150	1	24,273
Malibu	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	1	38,150	1	24,273	1	38,150	1	24,273
N. Landing	K	0	0	0	0	0	0	0	0
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	2	76,300	2	48,546	2	76,300	2	48,546
Subtotals		13	495,950	15	364,095	17	648,550	19	461,187

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:23 Number of Teachers	Teacher/ Student Ratio 1:23 Salaries and Benefits	Portable Units Ratio 1:23 Number of Units	Portable Units Ratio 1:23 Cost for Units	Teacher/ Student Ratio 1:22 Number of Teachers	Teacher/ Student Ratio 1:22 Salaries and Benefits	Portable Units Ratio 1:22 Number of Units	Portable Units Ratio 1:22 Cost for Units
Newtown Rd.	K	0	0	0	0	0	0	0	0
	1	0	0	0	0	1	38,150	1	24,273
	2	1	38,150	1	24,273	1	38,150	1	24,273
Parkway	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	1	38,150	1	24,273	1	38,150	1	24,273
Pembroke	K	0	0	0	0	0	0	0	0
	1	1	38,150	0	0	1	38,150	1	24,273
	2	1	38,150	0	0	1	38,150	1	24,273
Pemb. Meadows	K	0.5	19,075	0	0	1	38,150	0	0
	1	1	38,150	0	0	2	76,300	1	24,273
	2	1	38,150	0	0	1	38,150	0	0
Plaza	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	1	38,150	1	24,273	2	76,300	2	48,546
Point O'View	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	1	38,150	1	24,273	1	38,150	1	24,273
Subtotals		17.5	667,625	14	339,822	21	801,150	19	461,187

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:23 Number of Teachers	Teacher/ Student Ratio 1:23 Salaries and Benefits	Portable Units Ratio 1:23 Number of Units	Portable Units Ratio 1:23 Cost for Units	Teacher/ Student Ratio 1:22 Number of Teachers	Teacher/ Student Ratio 1:22 Salaries and Benefits	Portable Units Ratio 1:22 Number of Units	Portable Units Ratio 1:22 Cost for Units
Princess Anne	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	2	76,300	2	48,546	2	76,300	2	48,546
Providence	K	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0
	2	1	38,150	1	24,273	1	38,150	1	24,273
Rosemont	K	0	0	0	0	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	1	38,150	1	24,273	1	38,150	1	24,273
Rosemont Forest	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	4	152,600	4	97,092
	2	2	76,300	2	48,546	3	114,450	3	72,819
Salem	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	1	38,150	1	24,273	2	76,300	2	48,546
Seatack	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
Subtotals		22.5	858,375	23	558,279	30	1,144,500	32	776,736

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:23		Portable Units Ratio 1:23		Teacher/ Student Ratio 1:22		Portable Units Ratio 1:22	
		Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units	Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Shelton Park	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	2	76,300	2	48,546	2	76,300	2	48,546
Thalia	K	0.5	19,075	0	0	0.5	19,075	0	0
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	0	0	0	0	0	0	0	0
Thoroughgood	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	1	38,150	1	24,273	1	38,150	1	24,273
Trantwood	K	0	0	0	0	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	1	38,150	1	24,273	1	38,150	1	24,273
White Oaks	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	2	76,300	2	48,546	2	76,300	2	48,546
Williams	K	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0
Subtotals		13	495,950	14	339,822	14.5	553,175	16	388,368

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:23 Number of Teachers	Teacher/ Student Ratio 1:23 Salaries and Benefits	Portable Units Ratio 1:23 Number of Units	Portable Units Ratio 1:23 Cost for Units	Teacher/ Student Ratio 1:22 Number of Teachers	Teacher/ Student Ratio 1:22 Salaries and Benefits	Portable Units Ratio 1:22 Number of Units	Portable Units Ratio 1:22 Cost for Units
Windsor Oaks	K	0	0	0	0	0	0	0	0
	1	0	0	0	0	1	38,150	1	24,273
	2	0	0	0	0	1	38,150	1	24,273
Windsor Woods	K	0.5	19,075	0	0	0.5	19,075	0	0
	1	1	38,150	0	0	1	38,150	0	0
	2	0	0	0	0	0	0	0	0
Woodstock	K	0	0	0	0	0	0	0	0
	1	1	38,150	0	0	2	76,300	1	24,273
	2	1	38,150	0	0	0	0	0	0
Subtotals		3.5	133,525	0	0	5.5	209,825	3	72,819
Totals		128.5	4,902,275	120	2,912,760	156.5	5,970,475	150	3,640,950

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:21 Number of Teachers	Teacher/ Student Ratio 1:21 Salaries and Benefits	Portable Units Ratio 1:21 Number of Units	Portable Units Ratio 1:21 Cost for Units	Teacher/ Student Ratio 1:20 Number of Teachers	Teacher/ Student Ratio 1:20 Salaries and Benefits	Portable Units Ratio 1:20 Number of Units	Portable Units Ratio 1:20 Cost for Units
Alanton	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	3	114,450	3	72,819	3	114,450	3	72,819
Arrowhead	K	0	0	0	0	0	0	0	0
	1	1	38,150	0	0	2	76,300	0	0
	2	1	38,150	0	0	1	38,150	0	0
Bayside	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
Birdneck	K	3.5	133,525	4	97,092	4	152,600	4	97,092
	1	8	305,200	8	194,184	9	343,350	9	218,457
	2	5	190,750	5	121,365	6	228,900	6	145,638
Brookwood	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	1	38,150	1	24,273	2	76,300	2	48,546
Centerville	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	1	38,150	1	24,273	2	76,300	2	48,546
Subtotals		36	1,373,400	36	873,828	42.5	1,621,375	41	995,193

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:21 Number of Teachers	Teacher/ Student Ratio 1:21 Salaries and Benefits	Portable Units Ratio 1:21 Number of Units	Portable Units Ratio 1:21 Cost for Units	Teacher/ Student Ratio 1:20 Number of Teachers	Teacher/ Student Ratio 1:20 Salaries and Benefits	Portable Units Ratio 1:20 Number of Units	Portable Units Ratio 1:20 Cost for Units
College Park	K	0	0	0	0	0.5	19,075	1	24,273
	1	0	0	0	0	1	38,150	1	24,273
	2	3	114,450	3	72,819	3	114,450	3	72,819
Cooke	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	0	0	0	0	1	38,150	1	24,273
	2	2	76,300	2	48,546	3	114,450	3	72,819
Creeds	K	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0
	2	1	38,150	0	0	1	38,150	0	0
Dey	K	0.5	19,075	0	0	0.5	19,075	0	0
	1	1	38,150	0	0	2	76,300	1	24,273
	2	2	76,300	1	24,273	2	76,300	1	24,273
Fairfield	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
Green Run	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	4	152,600	4	97,092	5	190,750	5	121,365
Subtotals		20.5	782,075	18	436,914	27	1,030,050	25	606,825

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:21 Number of Teachers	Teacher/ Student Ratio 1:21 Salaries and Benefits	Portable Units Ratio 1:21 Number of Units	Portable Units Ratio 1:21 Cost for Units	Teacher/ Student Ratio 1:20 Number of Teachers	Teacher/ Student Ratio 1:20 Salaries and Benefits	Portable Units Ratio 1:20 Number of Units	Portable Units Ratio 1:20 Cost for Units
Hermitage	K	0	0	0	0	0	0	0	0
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	3	114,450	3	72,819	3	114,450	3	72,819
Holland	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	3	114,450	3	72,819	3	114,450	3	72,819
Indian Lakes	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	3	114,450	3	72,819	3	114,450	3	72,819
Kemps. Meadows	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	1	38,150	1	24,273	1	38,150	1	24,273
Kempsville	K	0.5	19,075	0	0	0.5	19,075	0	0
	1	1	38,150	0	0	1	38,150	0	0
	2	2	76,300	1	24,273	2	76,300	1	24,273
King's Grant	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
Subtotals		28.5	1,087,275	27	655,371	31	1,182,650	29	703,917

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:21		Portable Units Ratio 1:21		Teacher/ Student Ratio 1:20		Portable Units Ratio 1:20	
		Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units	Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Kingston	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
Linkhorn Park	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	2	76,300	2	48,546	2	76,300	2	48,546
Luxford	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	1	38,150	1	24,273	1	38,150	1	24,273
Lynnhaven	K	0.5	19,075	1	24,273	0.5	19,075	0.5	12,137
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	1	38,150	1	24,273	1	38,150	1	24,273
Malibu	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	1	38,150	1	24,273	1	38,150	1	24,273
N. Landing	K	0	0	0	0	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	3	114,450	3	72,819	3	114,450	3	72,819
Subtotals		21.5	820,225	24	582,552	26	991,900	27.5	667,508

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:21		Portable Units Ratio 1:21		Teacher/ Student Ratio 1:20		Portable Units Ratio 1:20	
		Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units	Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Newtown Rd.	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	2	76,300	2	48,546	2	76,300	2	48,546
Parkway	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	4	152,600	4	97,092	4	152,600	4	97,092
	2	2	76,300	2	48,546	2	76,300	2	48,546
Pembroke	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
Pemb. Meadows	K	1	38,150	0	0	1	38,150	0	0
	1	2	76,300	1	24,273	2	76,300	1	24,273
	2	1	38,150	0	0	3	114,450	2	48,546
Plaza	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	2	76,300	2	48,546	2	76,300	2	48,546
Point O'View	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	2	76,300	2	48,546	2	76,300	2	48,546
Subtotals		29	1,106,350	27	655,371	33.5	1,278,025	32	776,736

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:21 Number of Teachers	Teacher/ Student Ratio 1:21 Salaries and Benefits	Portable Units Ratio 1:21 Number of Units	Portable Units Ratio 1:21 Cost for Units	Teacher/ Student Ratio 1:20 Number of Teachers	Teacher/ Student Ratio 1:20 Salaries and Benefits	Portable Units Ratio 1:20 Number of Units	Portable Units Ratio 1:20 Cost for Units
Princess Anne	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	4	152,600	4	97,092	4	152,600	4	97,092
	2	3	114,450	3	72,819	3	114,450	3	72,819
Providence	K	0	0	0	0	0	0	0	0
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	2	76,300	2	48,546	2	76,300	2	48,546
Rosemont	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	2	76,300	2	48,546	2	76,300	2	48,546
Rosemont Forest	K	1.5	57,225	2	48,546	2	76,300	2	48,546
	1	4	152,600	4	97,092	5	190,750	5	121,365
	2	3	114,450	3	72,819	4	152,600	4	97,092
Salem	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	4	152,600	4	97,092
	2	2	76,300	2	48,546	2	76,300	2	48,546
Seatack	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	3	114,450	3	72,819	3	114,450	3	72,819
Subtotals		36.5	1,392,475	39	946,647	42	1,602,300	43	1,043,739

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:21 Number of Teachers	Teacher/ Student Ratio 1:21 Salaries and Benefits	Portable Units Ratio 1:21 Number of Units	Portable Units Ratio 1:21 Cost for Units	Teacher/ Student Ratio 1:20 Number of Teachers	Teacher/ Student Ratio 1:20 Salaries and Benefits	Portable Units Ratio 1:20 Number of Units	Portable Units Ratio 1:20 Cost for Units
Shelton Park	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	2	76,300	2	48,546	2	76,300	2	48,546
Thalia	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	1	38,150	1	24,273	1	38,150	1	24,273
Thoroughgood	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	1	38,150	1	24,273	1	38,150	1	24,273
Trantwood	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
White Oaks	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	2	76,300	2	48,546	3	114,450	3	72,819
Williams	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	0	0	0	0	0	0	0	0
	2	1	38,150	1	24,273	1	38,150	1	24,273
Subtotals		18.5	705,775	21	509,733	22.5	858,375	24	582,552

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:21 Number of Teachers	Teacher/ Student Ratio 1:21 Salaries and Benefits	Portable Units Ratio 1:21 Number of Units	Portable Units Ratio 1:21 Cost for Units	Teacher/ Student Ratio 1:20 Number of Teachers	Teacher/ Student Ratio 1:20 Salaries and Benefits	Portable Units Ratio 1:20 Number of Units	Portable Units Ratio 1:20 Cost for Units
Windsor Oaks	K	0	0	0	0	0	0	0	0
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	1	38,150	1	24,273	1	38,150	1	24,273
Windsor Woods	K	0.5	19,075	0	0	0.5	19,075	1	24,273
	1	1	38,150	0	0	1	38,150	1	24,273
	2	1	38,150	0	0	1	38,150	1	24,273
Woodstock	K	0	0	0	0	0.5	19,075	1	24,273
	1	2	76,300	1	24,273	2	76,300	2	48,546
	2	2	76,300	1	24,273	2	76,300	2	48,546
Subtotals		8.5	324,275	4	97,092	9	343,350	10	242,730
Totals		199	7,591,850	196	4,757,508	233.5	8,908,025	231.5	5,619,200

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:19 Number of Teachers	Teacher/ Student Ratio 1:19 Salaries and Benefits	Portable Units Ratio 1:19 Number of Units	Portable Units Ratio 1:19 Cost for Units	Teacher/ Student Ratio 1:18 Number of Teachers	Teacher/ Student Ratio 1:18 Salaries and Benefits	Portable Units Ratio 1:18 Number of Units	Portable Units Ratio 1:18 Cost for Units
Alanton	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	4	152,600	4	97,092	4	152,600	4	97,092
	2	4	152,600	4	97,092	4	152,600	4	97,092
Arrowhead	K	0	0	0	0	0.5	19,075	0	0
	1	2	76,300	0	0	2	76,300	0	0
	2	2	76,300	0	0	2	76,300	0	0
Bayside	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	3	114,450	3	72,819	3	114,450	3	72,819
Birdneck	K	4.5	171,675	5	121,365	5	190,750	5	121,365
	1	10	381,500	10	242,730	11	419,650	11	267,003
	2	7	267,050	7	169,911	8	305,200	8	194,184
Brookwood	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
Centerville	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	4	152,600	4	97,092	4	152,600	4	97,092
	2	2	76,300	2	48,546	3	114,450	3	72,819
Subtotals		52	1,983,800	50	1,213,650	57	2,174,550	53	1,286,469

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:19 Number of Teachers	Teacher/ Student Ratio 1:19 Salaries and Benefits	Portable Units Ratio 1:19 Number of Units	Portable Units Ratio 1:19 Cost for Units	Teacher/ Student Ratio 1:18 Number of Teachers	Teacher/ Student Ratio 1:18 Salaries and Benefits	Portable Units Ratio 1:18 Number of Units	Portable Units Ratio 1:18 Cost for Units
College Park	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	3	114,450	3	72,819	4	152,600	4	97,092
Cooke	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	3	114,450	3	72,819	3	114,450	3	72,819
Creeds	K	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0
	2	1	38,150	0	0	1	38,150	0	0
Dey	K	1	38,150	0	0	1	38,150	0	0
	1	2	76,300	1	24,273	2	76,300	1	24,273
	2	2	76,300	1	24,273	2	76,300	1	24,273
Fairfield	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	2	76,300	2	48,546	3	114,450	3	72,819
Green Run	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	3		5	121,365	6	228,900	6	145,638
Subtotals		27.5	934,675	27	655,371	33.5	1,278,025	31	752,463

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:19 Number of Teachers	Teacher/ Student Ratio 1:19 Salaries and Benefits	Portable Units Ratio 1:19 Number of Units	Portable Units Ratio 1:19 Cost for Units	Teacher/ Student Ratio 1:18 Number of Teachers	Teacher/ Student Ratio 1:18 Salaries and Benefits	Portable Units Ratio 1:18 Number of Units	Portable Units Ratio 1:18 Cost for Units
Hermitage	K	5	190,750	1	24,273	0.5	19,075	1	24,273
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	3	114,450	3	72,819	4	152,600	4	97,092
Holland	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	4	152,600	4	97,092	4	152,600	4	97,092
Indian Lakes	K	2	76,300	2	48,546	2	76,300	2	48,546
	1	3	114,450	3	72,819	6	228,900	6	145,638
	2	4	152,600	4	97,092	4	152,600	4	97,092
Kemps. Meadows	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	1	38,150	1	24,273	2	76,300	2	48,546
Kempsville	K	0.5	19,075	0	0	0.5	19,075	0	0
	1	1	38,150	0	0	2	76,300	1	24,273
	2	2	76,300	1	24,273	3	114,450	2	48,546
King's Grant	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	2	76,300	2	48,546	3	114,450	3	72,819
Subtotals		42	1,602,300	36	873,828	47	1,793,050	46	1,116,558

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:19 Number of Teachers	Teacher/ Student Ratio 1:19 Salaries and Benefits	Portable Units Ratio 1:19 Number of Units	Portable Units Ratio 1:19 Cost for Units	Teacher/ Student Ratio 1:18 Number of Teachers	Teacher/ Student Ratio 1:18 Salaries and Benefits	Portable Units Ratio 1:18 Number of Units	Portable Units Ratio 1:18 Cost for Units
Kingston	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	2	76,300	2	48,546	3	114,450	3	72,819
Linkhorn Park	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	2	76,300	2	48,546	3	114,450	3	72,819
Luxford	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	1	38,150	1	24,273	1	38,150	1	24,273
Lynnhaven	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
Malibu	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	1	38,150	1	24,273	2	76,300	2	48,546
N. Landing	K	0	0	0	0	0	0	0	0
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	3	114,450	3	72,819	4	152,600	4	97,092
Subtotals		28	1,068,200	29	703,917	35	1,335,250	35	849,555

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:19 Number of Teachers	Teacher/ Student Ratio 1:19 Salaries and Benefits	Portable Units Ratio 1:19 Number of Units	Portable Units Ratio 1:19 Cost for Units	Teacher/ Student Ratio 1:18 Number of Teachers	Teacher/ Student Ratio 1:18 Salaries and Benefits	Portable Units Ratio 1:18 Number of Units	Portable Units Ratio 1:18 Cost for Units
Newtown Rd.	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	2	76,300	2	48,546	3	114,450	3	72,819
Parkway	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	5	190,750	5	121,365	5	190,750	5	121,365
	2	3	114,450	3	72,819	3	114,450	3	72,819
Pembroke	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
Pemb. Meadows	K	1	38,150	0	0	1.5	57,225	2	48,546
	1	2	76,300	1	24,273	3	114,450	2	48,546
	2	2	76,300	1	24,273	2	76,300	1	24,273
Plaza	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	2	76,300	2	48,546	3	114,450	3	72,819
Point O'View	K	1.5	57,225	2	48,546	2	76,300	2	48,546
	1	4	152,600	4	97,092	4	152,600	4	97,092
	2	2	76,300	2	48,546	3	114,450	3	72,819
Subtotals		37	1,411,550	36	873,828	43	1,640,450	42	1,019,466

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:19 Number of Teachers	Teacher/ Student Ratio 1:19 Salaries and Benefits	Portable Units Ratio 1:19 Number of Units	Portable Units Ratio 1:19 Cost for Units	Teacher/ Student Ratio 1:18 Number of Teachers	Teacher/ Student Ratio 1:18 Salaries and Benefits	Portable Units Ratio 1:18 Number of Units	Portable Units Ratio 1:18 Cost for Units
Princess Anne	K	2	76,300	2	48,546	2	76,300	2	48,546
	1	5	190,750	5	121,365	5	190,750	5	121,365
	2	3	114,450	3	72,819	4	152,600	4	97,092
Providence	K	0	0	0	0	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	2	76,300	2	48,546	3	114,450	3	72,819
Rosemont	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	4	152,600	4	97,092
	2	2	76,300	2	48,546	3	114,450	3	72,819
Rosemont Forest	K	2.5	95,375	3	72,819	3	114,450	3	72,819
	1	6	228,900	6	145,638	7	267,050	7	169,911
	2	5	190,750	5	121,365	5	190,750	5	121,365
Salem	K	2	76,300	2	48,546	2.5	95,375	3	72,819
	1	4	152,600	4	97,092	5	190,750	5	121,365
	2	3	114,450	3	72,819	3	114,450	3	72,819
Seatack	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	5	190,750	3	72,819	4	152,600	4	97,092
Subtotals		50.5	1,926,575	49	1,189,377	59	2,250,850	61	1,480,653

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:19 Number of Teachers	Teacher/ Student Ratio 1:19 Salaries and Benefits	Portable Units Ratio 1:19 Number of Units	Portable Units Ratio 1:19 Cost for Units	Teacher/ Student Ratio 1:18 Number of Teachers	Teacher/ Student Ratio 1:18 Salaries and Benefits	Portable Units Ratio 1:18 Number of Units	Portable Units Ratio 1:18 Cost for Units
Shelton Park	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	3	114,450	3	72,819	3	114,450	3	72,819
Thalia	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	1	38,150	1	24,273	1	38,150	1	24,273
Thoroughgood	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	2	76,300	2	48,546	2	76,300	2	48,546
Trantwood	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	2	76,300	2	48,546	3	114,450	3	72,819
White Oaks	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	3	114,450	3	72,819	4	152,600	4	97,092
Williams	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	1	38,150	1	24,273	1	38,150	1	24,273
	2	1	38,150	1	24,273	2	76,300	2	48,546
Subtotals		28.5	1,087,275	29	703,917	33.5	1,278,025	34	825,282

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:19 Number of Teachers	Teacher/ Student Ratio 1:19 Salaries and Benefits	Portable Units Ratio 1:19 Number of Units	Portable Units Ratio 1:19 Cost for Units	Teacher/ Student Ratio 1:18 Number of Teachers	Teacher/ Student Ratio 1:18 Salaries and Benefits	Portable Units Ratio 1:18 Number of Units	Portable Units Ratio 1:18 Cost for Units
Windsor Oaks	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	1	38,150	1	24,273	2	76,300	2	48,546
Windsor Woods	K	1	38,150	0	0	1	38,150	0	0
	1	1	38,150	0	0	2	76,300	1	24,273
	2	1	38,150	0	0	1	38,150	0	0
Woodstock	K	0.5	19,075	0	0	0.5	19,075	0	0
	1	3	114,450	2	48,546	3	114,450	2	48,546
	2	2	76,300	1	24,273	3	114,450	2	48,546
Subtotals		11	419,650	6	145,638	15	572,250	10	242,730
Totals		276.5	10,434,025	262	6,359,526	323	12,322,450	312	7,573,176

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:17 Number of Teachers	Teacher/ Student Ratio 1:17 Salaries and Benefits	Portable Units Ratio 1:17 Number of Units	Portable Units Ratio 1:17 Cost for Units	Teacher/ Student Ratio 1:16 Number of Teachers	Teacher/ Student Ratio 1:16 Salaries and Benefits	Portable Units Ratio 1:16 Number of Units	Portable Units Ratio 1:16 Cost for Units
Alanton	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	5	190,750	5	121,365	5	190,750	5	121,365
	2	5	190,750	5	121,365	5	190,750	5	121,365
Arrowhead	K	0.5	19,075	0	0	0.5	19,075	0	0
	1	3	114,450	0	0	1	38,150	0	0
	2	2	76,300	0	0	3	114,450	0	0
Bayside	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	3	114,450	3	72,819	4	152,600	4	97,092
Birdneck	K	6	228,900	6	145,638	6.5	247,975	7	169,911
	1	13	495,950	13	315,549	14	534,100	14	339,822
	2	9	343,350	9	218,457	10	381,500	10	242,730
Brookwood	K	1	38,150	1	24,273	4.5	171,675	4	97,092
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	3	114,450	3	72,819	3	114,450	3	72,819
Centerville	K	2	76,300	2	48,546	2	76,300	2	48,546
	1	5	190,750	5	121,365	5	190,750	5	121,365
	2	3	114,450	3	72,819	4	152,600	4	97,092
Subtotals		67.5	2,575,125	62	1,504,926	76.5	2,918,475	73	1,771,929

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:17 Number of Teachers	Teacher/ Student Ratio 1:17 Salaries and Benefits	Portable Units Ratio 1:17 Number of Units	Portable Units Ratio 1:17 Cost for Units	Teacher/ Student Ratio 1:16 Number of Teachers	Teacher/ Student Ratio 1:16 Salaries and Benefits	Portable Units Ratio 1:16 Number of Units	Portable Units Ratio 1:16 Cost for Units
College Park	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	4	152,600	4	97,092	5	190,750	5	121,365
Cooke	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	4	152,600	4	97,092	4	152,600	4	97,092
Creeds	K	0	0	0	0	1	38,150	0	0
	1	0	0	0	0	1	38,150	0	0
	2	1	38,150	0	0	2	76,300	0	0
Dey	K	1	38,150	0	0	1	38,150	0	0
	1	3	114,450	2	48,546	3	114,450	2	48,546
	2	3	114,450	2	48,546	3	114,450	2	48,546
Fairfield	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	4	152,600	4	97,092
	2	3	114,450	3	72,819	4	152,600	4	97,092
Green Run	K	1.5	57,225	2	48,546	2	76,300	2	48,546
	1	4	152,600	4	97,092	4	152,600	4	97,092
	2	6	228,900	6	145,638	7	267,050	7	169,911
Subtotals		41	1,564,150	38	922,374	48.5	1,850,275	42	1,019,466

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:17 Number of Teachers	Teacher/ Student Ratio 1:17 Salaries and Benefits	Portable Units Ratio 1:17 Number of Units	Portable Units Ratio 1:17 Cost for Units	Teacher/ Student Ratio 1:16 Number of Teachers	Teacher/ Student Ratio 1:16 Salaries and Benefits	Portable Units Ratio 1:16 Number of Units	Portable Units Ratio 1:16 Cost for Units
Hermitage	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	4	152,600	4	97,092	4	152,600	4	97,092
	2	4	152,600	4	97,092	5	190,750	5	121,365
Holland	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	4	152,600	4	97,092
	2	5	190,750	5	121,365	5	190,750	5	121,365
Indian Lakes	K	2.5	95,375	3	72,819	2.5	95,375	3	72,819
	1	4	152,600	4	97,092	5	190,750	5	121,365
	2	5	190,750	5	121,365	5	190,750	5	121,365
Kemps. Meadows	K	2	76,300	2	48,546	2	76,300	2	48,546
	1	3	114,450	3	72,819	4	152,600	4	97,092
	2	2	76,300	2	48,546	2	76,300	2	48,546
Kempsville	K	1	38,150	0	0	1	38,150	0	0
	1	2	76,300	1	24,273	2	76,300	1	24,273
	2	3	114,450	2	48,546	3	114,450	2	48,546
King's Grant	K	1.5	57,225	2	48,546	2	76,300	2	48,546
	1	4	152,600	4	97,092	4	152,600	4	97,092
	2	3	114,450	3	72,819	3	114,450	3	72,819
Subtotals		51	1,945,650	50	1,213,650	56	2,136,400	54	1,310,742

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:17 Number of Teachers	Teacher/ Student Ratio 1:17 Salaries and Benefits	Portable Units Ratio 1:17 Number of Units	Portable Units Ratio 1:17 Cost for Units	Teacher/ Student Ratio 1:16 Number of Teachers	Teacher/ Student Ratio 1:16 Salaries and Benefits	Portable Units Ratio 1:16 Number of Units	Portable Units Ratio 1:16 Cost for Units
Kingston	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	4	152,600	4	97,092
	2	3	114,450	3	72,819	3	114,450	3	72,819
Linkhorn Park	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	4	152,600	4	97,092	4	152,600	4	97,092
	2	3	114,450	3	72,819	4	152,600	4	97,092
Luxford	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	2	76,300	2	48,546	2	76,300	2	48,546
Lynnhaven	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	2	76,300	2	48,546	3	114,450	3	72,819
Malibu	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	2	76,300	2	48,546	2	76,300	2	48,546
N. Landing	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	3	114,450	3	72,819	4	152,600	4	97,092
	2	4	152,600	4	97,092	5	190,750	5	121,365
Subtotals		37.5	1,430,625	38	922,374	45.5	1,735,825	47	1,140,831

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:17 Number of Teachers	Teacher/ Student Ratio 1:17 Salaries and Benefits	Portable Units Ratio 1:17 Number of Units	Portable Units Ratio 1:17 Cost for Units	Teacher/ Student Ratio 1:16 Number of Teachers	Teacher/ Student Ratio 1:16 Salaries and Benefits	Portable Units Ratio 1:16 Number of Units	Portable Units Ratio 1:16 Cost for Units
Newtown Rd.	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	3	114,450	3	72,819	4	152,600	4	97,092
Parkway	K	2	76,300	2	48,546	2.5	95,375	3	72,819
	1	6	228,900	6	145,638	7	267,050	7	169,911
	2	4	152,600	4	97,092	4	152,600	4	97,092
Pembroke	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	3	114,450	3	72,819	3	114,450	3	72,819
Pemb. Meadows	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	3	114,450	2	48,546	4	152,600	3	72,819
	2	3	114,450	2	48,546	3	114,450	2	48,546
Plaza	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	4	152,600	4	97,092	4	152,600	4	97,092
	2	3	114,450	3	72,819	4	152,600	4	97,092
Point O'View	K	2	76,300	2	48,546	2.5	95,375	3	72,819
	1	4	152,600	4	97,092	5	190,750	5	121,365
	2	3	114,450	3	72,819	3	114,450	3	72,819
Subtotals		50	1,907,500	49	1,189,377	57.5	2,193,625	58	1,407,834

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:17 Number of Teachers	Teacher/ Student Ratio 1:17 Salaries and Benefits	Portable Units Ratio 1:17 Number of Units	Portable Units Ratio 1:17 Cost for Units	Teacher/ Student Ratio 1:16 Number of Teachers	Teacher/ Student Ratio 1:16 Salaries and Benefits	Portable Units Ratio 1:16 Number of Units	Portable Units Ratio 1:16 Cost for Units
Princess Anne	K	2.5	95,375	3	72,819	3	114,450	3	72,819
	1	6	228,900	6	145,638	7	267,050	7	169,911
	2	4	152,600	4	97,092	5	190,750	5	121,365
Providence	K	0.5	19,075	1	24,273	0.5	19,075	1	24,273
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	3	114,450	3	72,819	4	152,600	4	97,092
Rosemont	K	1.5	57,225	2	48,546	2	76,300	2	48,546
	1	4	152,600	4	97,092	5	190,750	5	121,365
	2	3	114,450	3	72,819	4	152,600	4	97,092
Rosemont Forest	K	3.5	133,525	4	97,092	4	152,600	4	97,092
	1	7	267,050	7	169,911	8	305,200	8	194,184
	2	6	228,900	6	145,638	7	267,050	7	169,911
Salem	K	2.5	95,375	3	72,819	3	114,450	3	72,819
	1	6	228,900	6	145,638	5	190,750	5	121,365
	2	4	152,600	4	97,092	5	190,750	5	121,365
Seatack	K	1.5	57,225	2	48,546	2	76,300	2	48,546
	1	4	152,600	4	97,092	4	152,600	4	97,092
	2	4	152,600	4	97,092	5	190,750	5	121,365
Subtotals		65	2,479,750	68	1,650,564	76.5	2,918,475	77	1,869,021

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:17 Number of Teachers	Teacher/ Student Ratio 1:17 Salaries and Benefits	Portable Units Ratio 1:17 Number of Units	Portable Units Ratio 1:17 Cost for Units	Teacher/ Student Ratio 1:16 Number of Teachers	Teacher/ Student Ratio 1:16 Salaries and Benefits	Portable Units Ratio 1:16 Number of Units	Portable Units Ratio 1:16 Cost for Units
Shelton Park	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	2	76,300	2	48,546	2	76,300	2	48,546
	2	3	114,450	3	72,819	4	152,600	4	97,092
Thalia	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	3	114,450	3	72,819	3	114,450	3	72,819
	2	2	76,300	2	48,546	2	76,300	2	48,546
Thoroughgood	K	1	38,150	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	2	76,300	2	48,546	3	114,450	3	72,819
Trantwood	K	1.5	57,225	2	48,546	1.5	57,225	2	48,546
	1	4	152,600	4	97,092	4	152,600	4	97,092
	2	3	114,450	3	72,819	4	152,600	4	97,092
White Oaks	K	1.5	57,225	2	48,546	2	76,300	2	48,546
	1	3	114,450	3	72,819	4	152,600	4	97,092
	2	4	152,600	4	97,092	5	190,750	5	121,365
Williams	K	1	38,150	1	24,273	1.5	57,225	2	48,546
	1	1	38,150	1	24,273	2	76,300	2	48,546
	2	2	76,300	2	48,546	3	114,450	3	72,819
Subtotals		39	1,487,850	41	995,193	48	1,831,200	50	1,213,650

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:17 Number of Teachers	Teacher/ Student Ratio 1:17 Salaries and Benefits	Portable Units Ratio 1:17 Number of Units	Portable Units Ratio 1:17 Cost for Units	Teacher/ Student Ratio 1:16 Number of Teachers	Teacher/ Student Ratio 1:16 Salaries and Benefits	Portable Units Ratio 1:16 Number of Units	Portable Units Ratio 1:16 Cost for Units
Windsor Oaks	K	0.5	19,075	1	24,273	1	38,150	1	24,273
	1	2	76,300	2	48,546	3	114,450	3	72,819
	2	2	76,300	2	48,546	2	76,300	2	48,546
Windsor Woods	K	1	38,150	0	0	1.5	57,225	1	24,273
	1	2	76,300	1	24,273	2	76,300	1	24,273
	2	2	76,300	1	24,273	2	76,300	1	24,273
Woodstock	K	1	38,150	0	0	1	38,150	0	0
	1	3	114,450	2	48,546	4	152,600	3	72,819
	2	3	114,450	2	48,546	3	114,450	2	48,546
Subtotals		16.5	629,475	11	267,003	19.5	743,925	14	339,822
Totals		367.5	14,020,125	357	8,665,461	428	16,328,200	415	10,073,295

TABLE 2

Schoool	Grade Level	Teacher/ Student Ratio 1:15 Number of Teachers	Salaries and Benefits	Portable Units Ratio 1:15 Number of Units	Cost for Units
Alanton	K	1.5	57,225	2	48,546
	1	6	228,900	6	145,638
	2	6	228,900	6	145,638
Arrowhead	K	0.5	19,075	0	0
	1	3	114,450	0	0
	2	3	114,450	0	0
Bayside	K	1.5	57,225	2	48,546
	1	4	152,600	4	97,092
	2	4	152,600	4	97,092
Birdneck	K	7.5	286,125	6	145,638
	1	14	534,100	14	339,822
	2	18	686,700	18	436,914
Brookwood	K	1.5	57,225	2	48,546
	1	3	114,450	5	121,365
	2	4	152,600	5	121,365
Centerville	K	8.5	324,275	9	218,457
	1	8	305,200	5	121,365
	2	5	190,750	5	121,365
Subtotals		99	3,776,850	93	2,257,389

TABLE 2

Schoool	Grade Level	Teacher/ Student Ratio 1:15 Number of Teachers	Salaries and Benefits	Portable Units Ratio 1:15 Number of Units	Cost for Units
College Park	K	1.5	57,225	2	48,546
	1	3	114,450	3	72,819
	2	5	190,750	5	121,365
Cooke	K	2	76,300	2	48,546
	1	2	76,300	2	48,546
	2	5	190,750	5	121,365
Creeds	K	1	38,150	0	0
	1	1	38,150	0	0
	2	2	76,300	1	24,273
Dey	K	1.5	57,225	1	24,273
	1	3	114,450	2	48,546
	2	4	152,600	3	72,819
Fairfield	K	2	76,300	2	48,546
	1	4	152,600	4	97,092
	2	4	152,600	4	97,092
Green Run	K	2	76,300	2	48,546
	1	5	190,750	5	121,365
	2	8	305,200	8	194,184
Subtotals		56	2,136,400	51	1,237,923

TABLE 2

Schoool	Grade Level	Teacher/ Student Ratio 1:15		Portable Units Ratio 1:15	
		Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Hermitage	K	1	38,150	1	24,273
	1	5	190,750	5	121,365
	2	5	190,750	5	121,365
Holland	K	2	76,300	2	48,546
	1	5	190,750	6	145,638
	2	6	228,900	6	145,638
Indian Lakes	K	6	228,900	6	145,638
	1	5	190,750	5	121,365
	2	6	228,900	6	145,638
Kemps. Meadows	K	2	76,300	2	48,546
	1	4	152,600	4	97,092
	2	2	76,300	2	48,546
Kempsville	K	1	38,150	0	0
	1	3	114,450	2	48,546
	2	4	152,600	3	72,819
King's Grant	K	2	76,300	2	48,546
	1	5	190,750	5	121,365
	2	4	152,600	4	97,092
Subtotals		68	2,594,200	66	1,602,018

TABLE 2

Schoool	Grade Level	Teacher/ Student Ratio 1:15 Number of Teachers	Salaries and Benefits	Portable Units Ratio 1:15 Number of Units	Cost for Units
Kingston	K	1.5	57,225	2	48,546
	1	4	152,600	4	97,092
	2	4	152,600	4	97,092
Linkhorn Park	K	1.5	57,225	2	48,546
	1	5	190,750	5	121,365
	2	4	152,600	4	97,092
Luxford	K	1.5	57,225	2	48,546
	1	3	114,450	3	72,819
	2	2	76,300	2	48,546
Lynnhaven	K	1.5	57,225	2	48,546
	1	3	114,450	3	72,819
	2	3	114,450	3	72,819
Malibu	K	1	38,150	1	24,273
	1	3	114,450	3	72,819
	2	2	76,300	2	48,546
N. Landing	K	0.5	19,075	1	24,273
	1	4	152,600	4	97,092
	2	6	228,900	6	145,638
Subtotals		50.5	1,926,575	53	1,286,469

TABLE 2

Schoool	Grade Level	Teacher/ Student Ratio 1:15 Number of Teachers	Salaries and Benefits	Portable Units Ratio 1:15 Number of Units	Cost for Units
Newtown Rd.	K	1.5	57,225	2	48,546
	1	3	114,450	3	72,819
	2	4	152,600	4	97,092
Parkway	K	3	114,450	3	72,819
	1	8	305,200	8	194,184
	2	5	190,750	5	121,365
Pembroke	K	1.5	57,225	2	48,546
	1	4	152,600	4	97,092
	2	4	152,600	4	97,092
Pemb. Meadows	K	2	76,300	2	48,546
	1	4	152,600	3	72,819
	2	3	114,450	2	48,546
Plaza	K	2	76,300	2	48,546
	1	5	190,750	5	121,365
	2	4	152,600	4	97,092
Point O'View	K	2.5	95,375	3	72,819
	1	6	228,900	6	145,638
	2	4	152,600	4	97,092
Subtotals		66.5	2,536,975	66	1,602,018

TABLE 2

School	Grade Level	Teacher/ Student Ratio 1:15		Portable Units Ratio 1:15	
		Number of Teachers	Salaries and Benefits	Number of Units	Cost for Units
Princess Anne	K	3	114,450	3	72,819
	1	8	305,200	8	194,184
	2	6	228,900	6	145,638
Providence	K	1	38,150	1	24,273
	1	3	114,450	3	72,819
	2	4	152,600	4	97,092
Rosemont	K	2.5	95,375	3	72,819
	1	5	190,750	5	121,365
	2	5	190,750	5	121,365
Rosemont Forest	K	4.5	171,675	5	121,365
	1	10	381,500	10	242,730
	2	8	305,200	8	194,184
Salem	K	3.5	133,525	4	97,092
	1	7	267,050	7	169,911
	2	5	190,750	5	121,365
Seatack	K	2	76,300	2	48,546
	1	5	190,750	5	121,365
	2	5	190,750	5	121,365
Subtotals		87.5	3,338,125	89	2,160,297

TABLE 2

Schoool	Grade Level	Teacher/ Student Ratio 1:15 Number of Teachers	Salaries and Benefits	Portable Units Ratio 1:15 Number of Units	Cost for Units
Shelton Park	K	1.5	57,225	2	48,546
	1	3	114,450	3	72,819
	2	4	152,600	4	97,092
Thalia	K	2	76,300	2	48,546
	1	4	152,600	4	97,092
	2	3	114,450	3	72,819
Thoroughgood	K	1.5	57,225	2	48,546
	1	3	114,450	3	72,819
	2	3	114,450	3	72,819
Trantwood	K	2	76,300	2	48,546
	1	5	190,750	5	121,365
	2	4	152,600	4	97,092
White Oaks	K	2.5	95,375	3	72,819
	1	4	152,600	4	97,092
	2	5	190,750	5	121,365
Williams	K	1.5	57,225	2	48,546
	1	2	76,300	2	48,546
	2	3	114,450	3	72,819
Subtotals		54	2,060,100	56	1,359,288

TABLE 2

Schoool	Grade Level	Teacher/ Student Ratio 1:15 Number of Teachers	Salaries and Benefits	Portable Units Ratio 1:15 Number of Units	Cost for Units
Windsor Oaks	K	1	38,150	1	24,273
	1	3	114,450	3	72,819
	2	3	114,450	3	72,819
Windsor Woods	K	1.5	57,225	1	24,273
	1	3	114,450	2	48,546
	2	2	76,300	1	24,273
Woodstock	K	1.5	57,225	1	24,273
	1	4	152,600	3	72,819
	2	4	152,600	3	72,819
Subtotals		23	877,450	18	436,914
Totals		504.5	19,246,675	492	11,942,316

TABLE 3

Summary of Projected Costs for Teacher Assistants
in Grades 1 Through 2 for Classes Which Exceed 1:24

TABLE 3

SUMMARY OF PROJECTED COSTS
FOR TEACHER ASSISTANTS IN GRADES 1-2
FOR CLASSES WHICH EXCEED 1:24 TEACHER/STUDENT RATIO

Elementary Schools	Grade 1 25-30	Teacher Assistant Salary/Benefits	Grade 2 25-30	Teacher Assistant Salary/Benefits
Alanton	4	$42,000	5	$52,500
Arrowhead	0		1	$10,500
Bayside	4	$42,000	4	$42,000
Birdneck	13	$136,500	12	$126,000
Brookwood	0		0	
Centerville	6	$63,000	6	$63,000
College Park	0		2	$21,000
Cooke	0		0	
Creeds	2	$21,000	2	$21,000
Dey	0		4	$42,000
Fairfield	0		0	
Green Run	5	$52,500	3	$31,500
Hermitage	5	$52,500	4	$42,000
Holland	2	$21,000	3	$31,500
Indian Lakes	2	$21,000	4	$42,000
Kempsville	1	$10,500	0	
Kempsville Meadows	0		5	$52,500
King's Grant	4	$42,000	4	$42,000
Kingston	4	$42,000	4	$42,000
Linkhorn	4	$42,000	3	$31,500
Luxford	0		4	$42,000
Lynnhaven	3	$31,500	0	
Malibu	3	$31,500	0	
Newtown	1	$10,500	2	$21,000
North Landing	0		0	
Parkway	6	$63,000	2	$21,000
Pembroke	1	$10,500	4	$42,000
Pembroke Meadows	3	$31,500	4	$42,000
Plaza	4	$42,000	4	$42,000
Point O'View	4	$42,000	4	$42,000
Princess Anne	6	$63,000	6	$63,000
Providence	6	$63,000	5	$52,500
Rosemont	0	$0	3	$31,500
Rosemont Forest	9	$94,500	9	$94,500
SUBTOTALS	102	$1,071,000	113	$1,186,500

TABLE 3

Elementary Schools	Grade 1 25-30	Teacher Assistant Salary/Benefits	Grade 2 25-30	Teacher Assistant Salary/Benefits
Salem	7	$73,500	2	$21,000
Seatack	5	$52,500	3	$31,500
Shelton Park	2	$21,000	1	$10,500
Thalia	0		0	
Thoroughgood	1	$10,500	3	$31,500
Trantwood	5	$52,500	2	$21,000
White Oaks	6	$63,000	6	$63,000
Williams	0		2	$21,000
Windsor Oaks	3	$31,500	0	
Windsor Woods	0		0	
Woodstock	2	$21,000	2	$21,000
SUBTOTALS	31	$325,500	21	$220,500
TOTALS	133	$1,396,500	134	$1,407,000

TABLE 4

Summary of Costs to Extend Transitional
First-Grade Program into Additional Elementary Schools

TABLE 4

SUMMARY OF COSTS TO EXTEND TRANSITIONAL FIRST- GRADE PROGRAM
INTO ADDITIONAL ELEMENTARY SCHOOLS

Method of Expansion	Teachers		Prefabricated Classrooms		Materials/ Supplies	Staff Development			Total Costs to Implement Program in Elementary Schools
	Number	Salary	Number	Costs	Costs	Workshop	Costs Materials	In-Service	
Per School (Per Class)	1	$38,150	1	$24,273	$4,250	$160	$17	$34	$66,884
Six Additional Elementary Schools	6	$228,900	6	$145,638	$25,500	$960	$102	$204	$401,304
39 Elementary Schools	39	$1,487,850	32	$776,736	$165,750	$6,240	$663	$1,326	$2,438,565

TABLE 5

STUDENTS RETAINED IN KINDERGARTEN/1987-88

School	Enrollment	No. Retained	% Retained
Alanton	145	14	9.66
Arrowhead	88	0	0.00
Bayside	123	8	6.50
Birdneck	310	28	9.03
Brookwood	109	10	9.17
Centerville	150	10	6.67
College Park	130	17	13.08
Cooke	113	19	16.81
Court House	92	5	5.43
Creeds	59	4	6.78
Dey	82	5	6.10
Fairfield	125	1	0.80
Green Run	118	13	11.02
Hermitage	114	6	5.26
Holland	161	20	12.42
Indian Lakes	133	11	8.27
Kempsville	94	4	4.26
Kempsville Meadows	118	10	8.47
King's Grant	127	13	10.24
Kingston	88	7	7.95
Linkhorn Park	135	8	5.93
Luxford	85	7	8.24
Lynnhaven	105	7	6.67
Malibu	58	1	1.72
Newtown Road	104	8	7.69
North Landing	183	9	4.92
Parkway	143	22	15.38
Pembroke	104	6	5.77
Pembroke Meadows	87	9	10.34
Plaza	100	4	4.00
Point O'View	121	8	6.61
Princess Anne	133	4	3.01
Providence	124	8	6.45
Rosemont	167	9	5.39
Rosemont Forest	194	7	3.61
Seatack	137	10	7.30
Shelton Park	95	13	13.68
Thalia	114	8	7.02
Thoroughgood	89	8	8.99
Trantwood	121	9	7.44
White Oaks	149	11	7.38
Williams	125	12	9.60
Windsor Oaks	118	7	5.93
Windsor Woods	90	10	11.11
Woodstock	112	6	5.36
Total	**5472**	**416**	**7.60**

TABLE 6

Comparative Costs of Alternative Methods
to Reduce Class Size in Grades K - 2

TABLE 6

COMPARATIVE COSTS OF ALTERNATIVE METHODS
TO REDUCE CLASS SIZE IN GRADES K-2

Option 1	Salary Costs	Capital Outlay
1:24 Average Ratio	$1,869,350	$1,359,288
Option 2		
1:24 Maximum Ratio	$4,330,025	$2,548,665
1:23 Maximum Ratio	$4,902,275	$2,912,760
1:22 Maximum Ratio	$5,970,475	$3,640,950
1:21 Maximum Ratio	$7,591,850	$4,757,508
1:20 Maximum Ratio	$8,908,025	$5,619,200
1:19 Maximum Ratio	$10,434,025	$6,359,526
1:18 Maximum Ratio	$12,322,450	$7,573,176
1:17 Maximum Ratio	$14,020,125	$8,665,461
1:16 Maximum Ratio	$16,328,200	$10,073,295
1:15 Maximum Ratio	$19,246,675	$11,942,316
Option 3		
Additional Teacher Assistants in Grades 1-2 Where Enrollment Exceeds 1:24	$2,803,500	
Option 4		
Additional First Grade Transitional Programs:		
One per School	$38,150	$24,273
Six Schools per Year	$228,900	$145,638
39 Elementary Schools	$1,487,850	$776,736

APPENDIX III

City and Educational Planning Center Projections

City and EPC Enrollment Projections

3/3/89

Grade	1988 Actual 30-Sep-88	City 1989	EPC 1989	AVERAGE 1989	City 1990	EPC 1990	AVERAGE 1990	City 1991	EPC 1991	AVERAGE 1991
K	5,624	6,010	5,943	5,977	6,518	6280	6,399	6,750	6,636	6,693
	6,006	6,465	6,368	6,417	6,801	6729	6,765	7,098	7,111	7,105
2	5,653	6,085	5,961	6,023	6,401	6321	6,361	6,680	6,679	6,680
3	5,667	6,100	5,902	6,001	6,417	6223	6,320	6,697	6,599	6,648
4	5,241	5,641	5,814	5,728	5,934	6055	5,995	6,193	6,385	6,289
5	5,039	5,424	5,339	5,382	5,706	5923	5,815	5,955	6,168	6,062
6	4,902	5,277	5,067	5,172	5,551	5369	5,460	5,793	5,957	5,875
Sub Total	38,132	41,002	40,394	40,698	43,328	42,900	43,114	45,166	45,535	45,351
S.E.	1,028	1,107	1,064	1,086	1,164	1113	1,139	1,215	1,176	1,196
Sub Total	39,160	42,109	41,458	41,784	44,492	44,013	44,253	46,381	46,711	46,546
7	5,004	5,386	5,389	5,388	5,666	5571	5,619	5,913	5,903	5,908
8	4,836	5,205	5,044	5,125	5,475	5432	5,454	5,714	5,616	5,665
9	4,847	4,725	4,858	4,792	4,660	5067	4,864	4,738	5,457	5,098
Sub Total	14,687	15,316	15,291	15,304	15,801	16,070	15,936	16,365	16,976	16,671
10	4,766	4,646	5,017	4,832	4,582	5028	4,805	4,659	5,245	4,952
11	4,420	4,309	4,183	4,246	4,250	4404	4,327	4,321	4,413	4,367
12	3,939	3,840	3,858	3,849	3,787	3651	3,719	3,851	3,844	3,848
Sub Total	13,125	12,795	13,058	12,927	12,619	13,083	12,851	12,831	13,502	13,167
System Total	66,972	70,220	69,807	70,014	72,912	73,166	73,039	75,577	77,189	76,383

City and EPC Enrollment Projections

City 1992	EPC 1992	AVERAGE 1992	City 1993	EPC 1993	AVERAGE 1993	City 1994	EPC 1994	AVERAGE 1994	City 1995	EPC 1995	AVERAGE 1995
7,310	7,449	7,380	7,375	7,557	7,466	7,634	7,915	7,775	7,852	8274	8,063
7,394	7,655	7,525	7,668	8,291	7,980	7,916	8,411	8,164	8,153	8,810	8,482
6,959	7,384	7,172	7,217	7,646	7,432	7,451	8,281	7,866	7,674	8,401	8,038
6,976	6,986	6,981	7,235	7,577	7,406	7,469	7,845	7,657	7,692	8,497	8,095
6,451	6,482	6,467	6,690	7,059	6,875	6,907	7,656	7,282	7,114	7,927	7,521
6,203	6,307	6,255	6,433	6,573	6,503	6,641	7,158	6,900	6,840	7,763	7,302
6,035	6,013	6,024	6,259	6,381	6,320	6,462	6,650	6,556	6,655	7,242	6,949
7,328	48,276	47,802	48,877	51,084	49,981	50,480	53,916	52,198	51,980	56,914	54,447
1,266	1,241	1,254	1,313	1,316	1,315	1,356	1,391	1,374	1,397	1,468	1,433
8,594	49,517	49,056	50,190	52,400	51,295	51,836	55,307	53,572	53,377	58,382	55,880
6,160	6,457	6,309	6,389	6,609	6,499	6,596	7,013	6,805	6,793	7,309	7,051
5,952	5,914	5,933	6,173	6,461	6,317	6,373	6,613	6,493	6,564	7,017	6,791
4,852	5,690	5,271	5,003	6,002	5,503	5,209	6,557	5,883	5,378	6,711	6,045
6,964	18,061	17,513	17,565	19,072	18,319	18,178	20,183	19,181	18,735	21,037	19,886
4,771	5,570	5,171	4,920	5,793	5,357	5,122	6,111	5,617	5,288	6,676	5,982
4,425	4,556	4,491	4,563	4,906	4,735	4,751	5,102	4,927	4,905	5,381	5,143
3,943	3,810	3,877	4,066	3,944	4,005	4,233	4,247	4,240	4,370	4,417	4,394
3,139	13,936	13,538	13,549	14,643	14,096	14,106	15,460	14,783	14,563	16,474	15,519
8,697	81,514	80,106	81,304	86,115	83,710	84,120	90,950	87,535	86,675	95,893	91,284

City 1996	EPC 1996	AVERAGE 1996	City 1997	EPC 1997	AVERAGE 1997
8,031	8,632	8,332	8,196	8,990	8,593
8,370	9,209	8,790	8,573	9,608	9,091
7,878	8,799	8,339	8,069	9,197	8,633
7,897	8,620	8,259	8,088	9,029	8,559
7,303	8,585	7,944	7,480	8,710	8,095
7,022	8,039	7,531	7,192	8,706	7,949
6,832	7,855	7,344	6,997	8,133	7,565
53,333	59,739	56,536	54,595	62,373	58,484
1,434	1,549	1,492	1,469	1,632	1,551
54,767	61,288	58,028	56,064	64,005	60,035
6,974	7,960	7,467	7,143	8,633	7,888
6,739	7,314	7,027	6,902	7,965	7,434
5,542	7,122	6,332	5,667	7,422	6,545
19,255	22,396	20,826	19,712	24,020	21,866
5,449	6,833	6,141	5,572	7,251	6,412
5,055	5,879	5,467	5,169	6,018	5,594
4,503	4,659	4,581	4,604	5,090	4,847
15,007	17,371	16,189	15,345	18,359	16,852
89,029	101,055	95,042	91,121	106,384	98,753

APPENDIX IV

Estimated Salaries for Teachers and Teacher Assistants, 1990-1995

Virginia Beach City Public Schools

TO: Lillian J. Donnally, Planning Specialist
Educational Planning Center

FROM: Dr. Donald A. Peccia, Director, Human Resources

SUBJECT: Information Requested - Five year Strategic Plan for Reduction of Class Size in Grades K-2

DATE: February 28, 1989

Enclosed is the information requested by you on February 27, 1989. If you need additional information, please do not hesitate to call.

Estimated Salaries for Teachers and Teacher Assistants
1990-1995

Teachers

Year		Est. Avg. Salary	Est. Costs of Fringe Benefits	Estimated Employer's Share of Health Ins.
1989-90		$30,300	$ 7,575	$1,000
1990-91	(6%)	32,118	8,030	1,150
1991-92	(6%)	34,045	8,852	1,200
1992-93	(7%)	36,429	9,472	1,320
1993-94	(6%)	38,615	10,426	1,320
1994-95	(7%)	41,318	11,156	1,500

Teacher Assistants

Year		Est. Avg. Salary	Est. Costs of Fringe Benefits	Estimated Employer's Share of Health Ins.
1989-90		$ 8,493	$2,124	$1,000
1990-91	(6%)	9,003	2,302	1,150
1991-92	(6%)	9,544	2,482	1,200
1992-93	(7%)	10,212	2,656	1,320
1993-94	(6%)	10,825	2,815	1,320
1994-95	(7%)	11,475	3,099	1,500

DAP/smc

Enclosure

APPENDIX V

Comparison of Projected Enrollment and Projected Capacity

I. COMPARISON OF PROJECTED ENROLLMENT AND PROJECTED CAPACITY FY 1988/89 - 1997-98

10/6/88
Revised 4/7/89
Revised 4/10/89

YEARS	88/89	89/90	90/91	91/92	92/93	93/94	94/95	95/96	96/97	97/98
Enrollment:	66,972	70,014	73,039	76,383	80,106	83,710	87,535	91,284	95,042	98,753
Building Program Capacity (including new schools)	59,095	63,795	65,395	65,395	68,395	68,395	68,395	71,095	73,995	73,995
With Additions:	59,095	63,795	66,005	66,005	69,715	70,105	70,885	73,585	77,215	77,215
With Portables (218)	65,635	70,335	71,935	71,935	74,935	74,935	74,935	77,635	80,535	80,535
With Additions and Portables (218)	65,635	70,335	72,545	72,545	76,255	76,645	77,425	80,125	83,755	83,755
New Schools:	Salem El. (810) Salem Jr. (1800)	Salem Sr. (2000) Ocean Lakes El. (900) Red Mill El. (900) Tallwood El. (900)	Glenwood El.* (1600)	-	Wadsworth El. (900) F. Market El. (900) F. Market Jr. (1400)	-	-	London Brdg. El. (900) Elem. Sch. A (900) Elem. Sch. B (900)	El. Sch.C (900) Ocean Lks. Sr. (2000)	-
Additions: (generating greater capacity)	-	-	Bayside Jr. 340:8,2L Bayside Sr. 270:6,2L	-	Centerville El. 120:4,4A Holland El. 120:4,4A Indian Lakes El. 60:2,4A Kemps Meadows El. 60:2,4A Princess Anne Jr. 350:10,4A	Green Run El. 60:2,4A N. Landing El. 60:2,4A Kellam Sr. 270:6,2L	King's Grant El. 60:2,4A College Park El. 60:2,4A Kingston El. 60:2,4A Linkhorn Pk. El. 60:2,4A Kempsville Sr. 270:6,2L F. C. Sr. 270:6,2L	-	Alanton 120:4,4A Brookwood El. 60:2,4A Windsor Oaks El. 60:2,2A Kempsville Jr. 280:6-10 Independence Jr. 210:6	-

1. Projected Enrollment based on EPC March 3, 1989 Average of City and EPC Projections.

2. Building Program Capacity based on 90% of Building Design Capacity

*Glenwood will have a capacity of 1,400 when it isy converted to a middle school in 1992/93.

II. COMPARISON OF PROJECTED ENROLLMENT AND PROJECTED CAPACITY With Current Grade Level Configuration

3/20/89
Revised 4/7/89
Revised 4/10/89

	88/89	89/90	90/91	91/92	92/93	93/94	94/95	95/96	96/97	97/98
Elementary										
Enrollment	38,821	41,426	43,878	46,153	48,643	50,863	53,119	55,407	57,536	59,523
Capacity	34,340	37,040	38,640	38,640	40,800	40,920	41,160	43,860	45,000	45,000
Difference	(4,481)	(4,486)	(5,238)	(7,513)	(7,843)	(9,943)	(11,959)	(11,547)	(12,536)	(14,523)
Middle/Jr.										
Enrollment	14,913	15,543	16,186	16,934	17,788	18,608	19,483	20,201	21,154	22,207
Capacity	13,115	13,115	13,455	13,455	15,205	15,205	15,205	15,205	15,695	15,695
Difference	(1,798)	(2,428)	(2,731)	(3,479)	(2,583)	(3,403)	(4,278)	(4,996)	(5,459)	(6,512)
Senior										
Enrollment	13,238	13,046	12,976	13,298	13,676	14,240	14,934	15,678	16,353	17,023
Capacity	11,640	13,640	13,910	13,910	13,910	14,180	14,720	14,720	16,720	16,720
Difference	(1,598)	594	934	612	234	(60)	(214)	(958)	367	(303)

. Projected Enrollment based on EPC March 3, 1989 Average of City and Enrollment Projections.

. Projected Enrollment includes Special Education students at each level based on percentage of total number of Special Education students provided by Dr. Curran (66% Elementary, 22% Junior High, 11% High School).

. Building Program Capacity based on 90% of Building Design Capacity.

. ( ) indicates Projected Enrollment is greater than Projected Capacity.

III. COMPARISON OF PROJECTED ENROLLMENT AND PROJECTED CAPACITY With Middle School Configuration (Grades 6, 7, & 8)

3/20/89
Revised 4/7/89
Revised 4/10/89

	89/90	90/91	91/92	92/93	93/94	94/95	95/96	96/97	97/98
Elementary									
Enrollment	36,254	38,418	40,278	42,619	44,543	46,563	48,458	50,192	51,958
Capacity	37,040	38,640	38,640	40,800	40,920	41,160	43,860	45,000	45,000
Difference	786	222	(1,638)	(1,819)	(3,623)	(5,403)	(4,598)	(5,192)	(6,958)
Middle/Jr.									
Enrollment	15,923	16,782	17,711	18,541	19,425	20,156	21,105	22,166	23,227
Capacity	13,115	13,455	13,455	15,205	15,205	15,205	15,205	15,695	15,695
Difference	(2,808)	(3,327)	(4,256)	(3,336)	(4,220)	(4,951)	(5,900)	(6,471)	(7,532)
Senior									
Enrollment	17,838	17,840	18,396	18,947	19,743	20,817	21,723	22,685	23,568
Capacity	13,640	13,910	13,910	13,910	14,180	14,720	14,720	16,720	16,720
Difference	(4,198)	(3,930)	(4,486)	(5,037)	(5,563)	(6,097)	(7,003)	(5,965)	(6,848)

1. Projected Enrollment based on EPC March 3, 1989 Average of City and Enrollment Projections.

2. Projected Enrollment includes Special Education students at each level based on percentage of total number of Special Education students provided by Dr. Curran (66% Elementary, 22% Junior High, 11% High School).

3. Building Program Capacity based on 90% of Building Design Capacity.

4. ( ) indicates Projected Enrollment is greater than Projected Capacity.

IV. COMPARISON OF
PROJECTED ENROLLMENT AND PROJECTED CAPACITY
With Middle School Configuration and Converting Brandon Junior High
to a High School and Glenwood Elementary to a Middle School in 1992/93

3/20/89
Revised 4/7/89
Revised 4/10/89

lementary	89/90	90/91	91/92	92/93	93/94	94/95	95/96	96/97	97/98
nrollment	36,254	38,418	40,278	42,619	44,543	46,563	48,458	50,192	51,958
pacity	37,040	38,640	38,640	39,200	39,320	39,560	42,260	43,400	43,400
fference	786	222	(1,638)	(3,419)	(5,223)	(7,003)	(6,198)	(6,792)	(8,558)
iddle/Jr.									
nrollment	15,923	16,782	17,711	18,541	19,425	20,156	21,105	22,166	23,227
pacity	13,115	13,455	13,455	14,805	14,805	14,805	14,805	15,295	15,295
ifference	(2,808)	(3,327)	(4,256)	(3,736)	(4,620)	(5,351)	(6,300)	(6,871)	(7,932)
enior									
nrollment	17,838	17,840	18,396	18,947	19,743	20,817	21,723	22,685	23,568
pacity	13,640	13,910	13,910	15,710	15,980	16,520	16,520	18,520	18,520
ifference	(4,198)	(3,930)	(4,486)	(3,237)	(3,763)	(4,297)	(5,203)	(4,165)	(5,048)

. Projected Enrollment based on EPC March 3, 1989 Average of City and Enrollment Projections.

. Projected Enrollment includes Special Education students at each level based on percentage of total number of Special Education students provided by Dr. Curran (66% Elementary, 22% Junior High, 11% High School).

. Building Program Capacity based on 90% of Building Design Capacity.

. ( ) indicates Projected Enrollment is greater than Projected Capacity.

APPENDIX VI

Estimated Costs to Reduce Class Size in Grade K

ESTIMATED COSTS TO REDUCE CLASS SIZE IN KINDERGARTEN

	1988	1989	1990	1991	1992	1993	1994
Projected Kindergarten Enrollment	5,621	5,977	6,399	6,693	7,380	7,466	7,775
Maintenance of Current Status							
Teacher/Pupil Ratio	1:23	1:22	1:22	1:22	1.22	1:22	1:22
No. of Classes	248	278	291	304	335	339	353
No. of Teachers	124	139	145	152	168	170	177
Add'l Teachers	NA	NA	6	7	16	2	7
Cost of Add'l Teachers' Salaries	NA	NA	$247,788	$308,679	$755,536	$100,722	$377,818
No. of Teacher Assistants	NA	NA	149	156	172	174	181
Add'l Teacher Assistants	NA	NA	6	7	16	2	7
Cost of Add'l Teacher Assistants' Salaries	NA	NA	$74,730	$92,582	$227,008	$29,920	$112,518
No. of Portables	NA	NA	6	7	16	2	7
Cost of Portables	NA	NA	$150,000	$175,000	$400,000	$50,000	$175,000
TOTAL COST	NA	NA	$472,518	$576,261	$1,382,544	$180,642	$665,336

ESTIMATED COSTS TO REDUCE CLASS SIZE IN KINDERGARTEN

	1988	1989	1990	1991	1992	1993	1994
Projected Kindergarten Enrollment	5,621	5,977	6,399	6,693	7,380	7,466	7,775
2.5% Reduction in Class Size (0.5 Student)							
Teacher/Pupil Ratio	1:23	1:22	1:21.5	1:21.5	1:21.5	1:21.5	1:21.5
No. of Classes	248	278	298	312	344	347	362
No. of Teachers	124	139	149	156	172	174	181
Add'l Teachers	NA	NA	10	7	16	2	7
Cost of Add'l Teachers' Salaries	NA	NA	$412,980	$308,673	$755,536	$100,722	$377,818
No. of Teacher Assistants	NA	NA	149	156	172	174	181
Add'l Teacher Assistants	NA	NA	10	7	16	2	7
Cost of Add'l Teacher Assistants' Salaries	NA	NA	$124,550	$92,582	$227,008	$29,920	$112,518
No. of Portables	NA	NA	10	7	16	2	7
Cost of Portables	NA	NA	$250,000	$175,000	$400,000	$50,000	$175,000
TOTAL COST	NA	NA	$787,530	$576,225	$1,382,544	$180,642	$665,336

ESTIMATED COSTS TO REDUCE CLASS SIZE IN KINDERGARTEN

	1988	1989	1990	1991	1992	1993	1994
Kindergarten Enrollment	5,621	5.977	6,399	6,693	7,380	7,466	7,775
5% Reduction in Class Size (1 Student)							
Teacher/Pupil Ratio	NA	NA	1:21	1:21	1:21	1:21	1:21
No. of Classes	NA	NA	305	320	352	355	370
No. of Teachers	NA	NA	153	160	176	178	185
Add'l Teachers	NA	NA	14	4	20	4	11
Cost of Add'l Teachers' Salaries	NA	NA	$578,172	$617,358	$944,420	$210,444	$593,714
No. of Teacher Assistants	NA	NA	153	160	176	178	185
Add'l Teacher Assistants	NA	NA	14	4	20	4	11
Cost of Add'l Teacher Assistants' Salaries	NA	NA	$174,370	$185,164	$283,760	$59,840	$176,814
No. of Portables	NA	NA	14	4	20	4	11
Cost of Portables	NA	NA	$350,000	$350,000	$500,000	$100,000	$275,000
TOTAL COST	NA	NA	$1,102,542	$1,152,522	$1,728,180	$370,284	$1,045,528

ESTIMATED COSTS TO REDUCE CLASS SIZE IN KINDERGARTEN

	1988	1989	1990	1991	1992	1993	1994
Kindergarten Enrollment	5,621	5.977	6,399	6,693	7,380	7,466	7,775
7.5% Reduction in Class Size (1.5 Students)							
Teacher/Pupil Ratio	NA	NA	1:20.5	1:20.5	1:20.5	1:20.5	1:20.5
No. of Classes	NA	NA	312	326	360	364	379
No. of Teachers	NA	NA	156	163	180	182	190
Add'l Teachers	NA	NA	17	17	27	8	16
Cost of Add'l Teachers' Salaries	NA	NA	$702,066	$749,649	$1,274,967	$402,888	$863,584
No. of Teacher Assistants	NA	NA	156	163	180	182	190
Add'l Teacher Assistants	NA	NA	17	17	27	8	16
Cost of Add'l Teacher Assistants' Salaries	NA	NA	$211,735	$224,842	$383,076	$119,680	$257,184
No. of Portables	NA	NA	17	17	27	8	16
Cost of Portables	NA	NA	$425,000	$425,000	$675,000	$200,000	$400,000
TOTAL COST	NA	NA	$1,338,801	$1,399,491	$2,333,043	$722,568	$1,520,768

ESTIMATED COSTS TO REDUCE CLASS SIZE IN KINDERGARTEN

	1988	1989	1990	1991	1992	1993	1994
Kindergarten Enrollment	5,621	5.977	6,399	6,693	7,380	7,466	7,775
10% Reduction in Class Size (2 Students)							
Teacher/Pupil Ratio	NA	NA	1:20	1:20	1:20	1:20	1:20
No. of Classes	NA	NA	319	335	369	373	389
No. of Teachers	NA	NA	160	168	185	187	196
Add'l Teachers	NA	NA	21	22	32	13	22
Cost of Add'l Teachers' Salaries	NA	NA	$867,258	$970,134	$1,511,072	$654,693	$1,187,428
No. of Teacher Assistants	NA	NA	160	160	185	187	196
Add'l Teacher Assistants	NA	NA	21	22	32	13	22
Cost of Add'l Teacher Assistants' Salaries	NA	NA	$261,555	$290,972	$454,016	$194,480	$353,628
No. of Portables	NA	NA	21	22	32	13	22
Cost of Portables	NA	NA	$525,000	$550,000	$800,000	$325,000	$550,000
TOTAL COST	NA	NA	$1,653,813	$1,811,106	$2,765,088	$1,174,173	$2,091,056

ESTIMATED COSTS TO REDUCE CLASS SIZE IN KINDERGARTEN

	1988	1989	1990	1991	1992	1993	1994
Kindergarten Enrollment	5,621	5.977	6,399	6,693	7,380	7,466	7,775
12.5% Reduction in Class Size (2.5 Students)							
Teacher/Pupil Ratio	NA	NA	1:19.5	1:19.5	1:19.5	1:19.5	1:19.5
No. of Classes	NA	NA	328	343	378	383	399
No. of Teachers	NA	NA	164	172	189	192	200
Add'l Teachers	NA	NA	25	26	36	18	26
Cost of Add'l Teachers' Salaries	NA	NA	$1,032,450	$1,146,522	$1,663,956	$906,498	$1,403,324
No. of Teacher Assistants	NA	NA	164	172	189	192	200
Add'l Teacher Assistants	NA	NA	25	26	36	18	26
Cost of Add'l Teacher Assistants' Salaries	NA	NA	$311,375	$343,876	$510,768	$269,280	$417,924
No. of Portables	NA	NA	25	26	36	18	26
Cost of Portables	NA	NA	$625,000	$650,000	$900,000	$450,000	$650,000
TOTAL COST	NA	NA	$1,968,825	$2,140,398	$3,074,724	$1,625,778	$2,471,248

ESTIMATED COSTS TO REDUCE CLASS SIZE IN KINDERGARTEN

	1988	1989	1990	1991	1992	1993	1994
Kindergarten Enrollment	5,621	5.977	6,399	6,693	7,380	7,466	7,775
15% Reduction in Class Size (3 Students)							
Teacher/Pupil Ratio	NA	NA	1:19	1:19	1:19	1:19	1:19
No. of Classes	NA	NA	337	352	388	393	409
No. of Teachers	NA	NA	169	176	194	197	205
Add'l Teachers	NA	NA	29	30	41	23	31
Cost of Add'l Teacher's Salaries	NA	NA	$1,197,642	$1,322,910	$1,936,061	$1,158,303	$1,673,194
No. of Teacher Assistants	NA	NA	169	176	194	197	205
Add'l Teacher Assistants	NA	NA	29	30	41	23	31
Cost of Add'l Teacher Assistant's Salaries	NA	NA	$361,195	$396,780	$581,708	$340,080	$498,294
No. of Portables	NA	NA	29	30	41	23	31
Cost of Portables	NA	NA	$725,000	$750,000	$1,025,000	$575,000	$775,000
TOTAL COST	NA	NA	$2,283,837	$2,469,690	$3,542,769	$2,073,383	$2,946,488

APPENDIX VII

Estimated Costs to Reduce Class Size in Grade 1

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE ONE

	1988	1989	1990	1991	1992	1993	1994
First grade Enrollment	6,006	6,417	6,765	7,105	7,525	7,980	8,164
Maintenance of Current Status							
Teacher/Pupil Ratio	1:25	1:24	1:24	1:24	1:24	1:24	1:24
No. of Classes	239	267	282	296	313	333	340
No. of Teachers	239	267	282	296	313	333	340
Add'l Teachers	NA	NA	15	14	17	20	7
Cost of Add'l Teachers' Salaries	NA	NA	$619,470	$617,358	$802,757	$1,007,220	$377,818
No. of Teacher Assistants	NA	NA	282	296	313	333	340
Add'l Teacher Assistants	NA	NA	15	14	17	20	7
Cost of Add'l Teacher Assistants' Salaries	NA	NA	$186,825	$185,164	$241,196	$299,200	$112,518
No. of Portables	NA	NA	15	14	17	20	7
Cost of Portables	NA	NA	$375,000	$350,000	$425,000	$500,000	$175,000
TOTAL COST	NA	NA	$1,181,295	$1,152,522	$1,468,953	$1,806,420	$665,336

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE ONE

	1988	1989	1990	1991	1992	1993	1994
First Grade Enrollment	6,006	6,417	6,765	7,105	7,525	7,980	8,164
2.5% Reduction in Class Size (0.5 Student)							
Teacher/Pupil Ratio	1:25	1:24	1:23.5	1:23.5	1:23.5	1:23.5	1:23.5
No. of Classes	239	NA	288	302	320	340	347
No. of Teachers	239	NA	288	302	320	340	347
Add'l Teachers	NA	NA	21	20	24	27	14
Cost of Add'l Teachers' Salaries	NA	NA	$867,258	$881,940	$1,133,304	$1,359,747	$755,636
No. of Teacher Assistants	NA	NA	288	302	320	340	347
Add'l Teacher Assistants	NA	NA	21	20	24	27	14
Cost of Add'l Teacher Assistants' Salaries	NA	NA	$261,555	$264,520	$340,512	$403,920	$225,036
No. of Portables	NA	NA	21	20	24	27	14
Cost of Portables	NA	NA	$525,000	$500,000	$600,000	$675,000	$350,000
TOTAL COST	NA	NA	$1,653,813	$1,646,460	$2,073,816	$2,438,667	$1,330,672

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE ONE

	1988	1989	1990	1991	1992	1993	1994
First Grade Enrollment	6,006	6,417	6,765	7,105	7,525	7,980	8,164
5% Reduction in Class Size (1 Student)							
Teacher/Pupil Ratio	1:25	1:24	1:23	1:23	1:23	1:23	1:23
No. of Classes	239	NA	294	308	327	346	355
No. of Teachers	239	NA	294	308	327	346	355
Add'l Teachers	NA	NA	27	26	31	33	22
Cost of Add'l Teachers' Salaries	NA	NA	$1,115,046	$1,146,522	$1,463,851	1,661,913	$1,187,428
No. of Teacher Assistants	NA	NA	294	308	327	346	355
Add'l Teacher Assistants	NA	NA	27	26	31	33	22
Cost of Add'l Teacher Assistants' Salaries	NA	NA	$336,205	$343,876	$439,828	$493,680	$353,628
No. of Portables	NA	NA	27	26	31	33	22
Cost of Portables	NA	NA	$675,000	$650,000	$775,000	$825,000	$550,000
TOTAL COST	NA	NA	$2,126,251	$2,140,398	$2,678,679	$2,980,593	$2,091,056

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE ONE

	1988	1989	1990	1991	1992	1993	1994
First Grade Enrollment	6,006	6,417	6,765	7,105	7,525	7,980	8,164
7.5% Reduction in Class Size (1.5 Students)							
Teacher/Pupil Ratio	NA	NA	1:22.5	1:22.5	1:22.5	1:22.5	1:22.5
No. of Classes	NA	NA	301	316	334	355	363
No. of Teachers	NA	NA	301	316	334	355	363
Add'l Teachers	NA	NA	34	34	38	42	30
Cost of Add'l Teachers' Salaries	NA	NA	$1,404,132	$1,499,298	$1,794,398	$2,115,162	$1,619,220
No. of Teacher Assistants	NA	NA	301	316	334	355	363
Add'l Teacher Assistants	NA	NA	34	34	38	42	30
Cost of Add'l Teacher Assistants' Salaries	NA	NA	$423,470	$449,684	$539,144	$628,320	$482,220
No. of Portables	NA	NA	34	34	38	42	30
Cost of Portables	NA	NA	$850,000	$850,000	$950,000	$1,050,000	$750,000
TOTAL COST	NA	NA	$2,677,602	$2,798,982	$3,283,542	$3,793,482	$2,851,440

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE ONE

	1988	1989	1990	1991	1992	1993	1994
First Grade Enrollment	6,006	6,417	6,765	7,105	7,525	7,980	8,164
10% Reduction in Class Size (2 Students)							
Teacher/Pupil Ratio	NA	NA	1:22	1:22	1:22	1:22	1:22
No. of Classes	NA	NA	308	323	342	363	371
No. of Teachers	NA	NA	308	323	342	363	371
Add'l Teachers	NA	NA	41	41	46	50	38
Cost of Add'l Teachers' Salaries	NA	NA	$1,693,218	$1,807,977	$2,172,166	$2,518,050	$2,051,012
No. of Teacher Assistants	NA	NA	308	323	342	363	371
Add'l Teacher Assistants	NA	NA	41	41	46	50	38
Cost of Add'l Teacher Assistants' Salaries	NA	NA	$510,655	$542,266	$652,648	$748,000	$610,812
No. of Portables	NA	NA	41	41	46	50	38
Cost of Portables	NA	NA	$1,025,000	$1,025,000	$1,150,000	$1,250,000	$950,000
TOTAL COST	NA	NA	$3,228,873	$3,375,243	$3,974,814	$4,516,050	$3,611,824

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE ONE

	1988	1989	1990	1991	1992	1993	1994
First Grade Enrollment	6,006	6,417	6,765	7,105	7,525	7,980	8,164
12.5% Reduction in Class Size (2.5 Students)							
Teacher/Pupil Ratio	NA	NA	1:21.5	1:21.5	1:21.5	1:21:5	1:21.5
No. of Classes	NA	NA	315	331	350	371	380
No. of Teachers	NA	NA	315	331	350	371	380
Add'l Teachers	NA	NA	48	49	54	58	47
Cost of Add'l Teachers' Salaries	NA	NA	$1,982,304	$2,160,753	$2,549,934	$2,920,938	$2,536,778
No. of Teacher Assistants	NA	NA	315	331	350	371	380
Add'l Teacher Assistants	NA	NA	48	49	54	58	47
Cost of Add'l Teacher Assistants' Salaries	NA	NA	$597,840	$648,074	$766,152	$867,680	$755,478
No. of Portables	NA	NA	48	49	54	58	47
Cost of Portables	NA	NA	$1,200,000	$1,225,000	$1,350,000	$1,450,000	$1,175,000
TOTAL COST	NA	NA	$3,780,144	$4,033,827	$4,666,086	$5,238,618	$4,467,256

APPENDIX VIII

Estimated Costs to Reduce Class Size in Grade 2

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE TWO

	1988	1989	1990	1991	1992	1993	1994
Second Grade Enrollment	5,653	6,023	6,361	6,680	7,172	7,432	7,866
Maintenance of Current Status							
Teacher/Pupil Ratio	1:25	1:24	1:24	1:24	1:24	1:24	1:24
No. of Classes	228	NA	267	281	301	312	331
No. of Teachers	228	NA	267	281	301	312	331
Add'l Teachers	NA	NA	14	14	20	11	19
Cost of Add'l Teachers' Salaries	NA	NA	$578,172	$617,358	$944,420	$553,971	$1,025,506
No. of Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Add'l Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Cost of Add'l Teacher Assistants' Salaries	NA	NA	NA	NA	NA	NA	NA
No. of Portables	NA	NA	14	14	20	11	19
Cost of Portables	NA	NA	$350,000	$350,000	$500,000	$275,000	$475,000
TOTAL COST	NA	NA	$928,172	$967,358	$1,444,420	$828,971	$1,500,506

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE TWO

	1988	1989	1990	1991	1992	1993	1994
Second Grade Enrollment	5,653	6,023	6,361	6,680	7,172	7,432	7,866
2.5% Reduction in Class Size (0.5 Student)							
Teacher/Pupil Ratio	1:25	1:24	1:23.5	1:23.5	1:23.5	1:23.5	1:23.5
No. of Classes	228	NA	271	284	305	316	335
No. of Teachers	228	NA	271	284	305	316	335
Add'l Teachers	NA	NA	18	17	24	15	23
Cost of Add'l Teachers' Salaries	NA	NA	$743,364	$749,649	$1,133,304	$755,415	$1,241,402
No. of Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Add'l Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Cost of Add'l Teacher Assistants' Salaries	NA	NA	NA	NA	NA	NA	NA
No. of Portables	NA	NA	18	17	24	15	23
Cost of Portables	NA	NA	$450,000	$425,000	$600,000	$375,000	$575,000
TOTAL COST	NA	NA	$1,193,364	$1,174,649	$1,733,304	$1,130,415	$1,816,402

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE TWO

	1988	1989	1990	1991	1992	1993	1994
Second Grade Enrollment	5,653	6,023	6,361	6,680	7,172	7,432	7,866
5% Reduction in Class Size (1 Student)							
Teacher/Pupil Ratio	1:25	1:24	1:23	1:23	1:23	1:23	1:23
No. of Classes	228	NA	277	290	312	323	342
No. of Teachers	228	NA	277	290	312	323	342
Add'l Teachers	NA	NA	24	23	31	21	30
Cost of Add'l Teachers' Salaries	NA	NA	$991,152	$1,014,231	$1,463,851	$1,057,581	1,619,220
No. of Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Add'l Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Cost of Add'l Teacher Assistants' Salaries	NA	NA	NA	NA	NA	NA	NA
No. of Portables	NA	NA	24	23	31	21	30
Cost of Portables	NA	NA	$600,000	$575,000	$775,000	$525,000	$750,000
TOTAL COST	NA	NA	$1,591,152	$1,589,231	$2,238,851	$1,582,581	$2,369,220

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE TWO

	1988	1989	1990	1991	1992	1993	1994
Second Grade Enrollment	5,653	6,023	6,361	6,680	7,172	7,432	7,866
7.5% Reduction in Class Size (1.5 Students)							
Teacher/Pupil Ratio	1:25	1:24	1:22.5	1:22.5	1:22.5	1:22.5	1:22.5
No. of Classes	228	NA	283	297	319	330	350
No. of Teachers	228	NA	283	297	319	330	350
Add'l Teachers	NA	NA	30	30	38	28	38
Cost of Add'l Teachers' Salaries	NA	NA	$1,238,940	$1,322,910	$1,794,398	$1,410,108	$2,051,012
No. of Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Add'l Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Cost of Add'l Teacher Assistants' Salaries	NA	NA	NA	NA	NA	NA	NA
No. of Portables	NA	NA	30	30	38	28	38
Cost of Portables	NA	NA	$750,000	$750,000	$950,000	$700,000	$950,000
TOTAL COST	NA	NA	$1,988,940	$2,072,910	$2,744,398	$2,110,108	$3,001,012

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE TWO

	1988	1989	1990	1991	1992	1993	1994
Second Grade Enrollment	5,653	6,023	6,361	6,680	7,172	7,432	7,866
10% Reduction in Class Size (2 Students)							
Teacher/Pupil Ratio	NA	NA	1:22	1:22	1:22	1:22	1:22
No. of Classes	NA	NA	289	304	326	338	358
No. of Teachers	NA	NA	289	304	326	338	358
Add'l Teachers	NA	NA	36	37	45	36	46
Cost of Add'l Teachers' Salaries	NA	NA	$1,509,408	$1,631,589	$2,124,945	$1,812,996	$2,482,804
No. of Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Add'l Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Cost of Add'l Teacher Assistants' Salaries	NA	NA	NA	NA	NA	NA	NA
No. of Portables	NA	NA	36	37	45	36	46
Cost of Portables	NA	NA	900,000	$925,000	$1,125,000	$900,000	$1,150,000
TOTAL COST	NA	NA	$2,409,408	$2,556,589	$3,249,945	$2,712,996	$3,632,804

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE TWO

	1988	1989	1990	1991	1992	1993	1994
Second Grade Enrollment	5,653	6,023	6,361	6,680	7,172	7,432	7,866
12.5% Reduction in Class Size (2.5 Students)							
Teacher/Pupil Ratio	NA	NA	1:21.5	1:21.5	1:21.5	1:21.5	1:21.5
No. of Classes	NA	NA	296	311	334	346	366
No. of Teachers	NA	NA	296	311	334	346	366
Add'l Teachers	NA	NA	42	44	53	44	54
Cost of Add'l Teachers' Salaries	NA	NA	$1,734,516	$1,940,268	$2,502,713	$2,215,884	$2,914,596
No. of Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Add'l Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Cost of Add'l Teacher Assistants' Salaries	NA	NA	NA	NA	NA	NA	NA
No. of Portables	NA	NA	42	44	53	44	54
Cost of Portables	NA	NA	$1,050,000	$1,100,000	$1,325,000	$1,100,000	$1,350,000
TOTAL COST	NA	NA	$2,784,516	$3,040,268	$3,827,713	$3,315,884	$4,264,596

ESTIMATED COSTS TO REDUCE CLASS SIZE IN GRADE TWO

	1988	1989	1990	1991	1992	1993	1994
Second Grade Enrollment	5,653	6,023	6,361	6,680	7,172	7,432	7,866
15% Reduction in Class Size (3 Students)							
Teacher/Pupil Ratio	NA	NA	1:21	1:21	1:21	1:21	1:21
No. of Classes	NA	NA	303	318	342	353	375
No. of Teachers	NA	NA	303	318	342	353	375
Add'l Teachers	NA	NA	49	51	62	51	63
Cost of Add'l Teachers' Salaries	NA	NA	$2,023,602	$2,248,947	$2,927,702	$2,568,411	$3,400,362
No. of Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Add'l Teacher Assistants	NA	NA	NA	NA	NA	NA	NA
Cost of Add'l Teacher Assistants' Salaries	NA	NA	NA	NA	NA	NA	NA
No. of Portables	NA	NA	49	51	62	51	63
Cost of Portables	NA	NA	$1,225,000	$1,275,000	$1,550,000	$1,275,000	$1,575,000
TOTAL COST	NA	NA	$3,248,602	$3,523,947	$4,477,702	$3,843,411	$4,975,362